

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	103	medical same script\$4 same language	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/04 12:16
L3	14	L2 and 705/3.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/04 12:20
L4	121	("4220160"   "4315309"   "4337377"   "4428381"   "4458693"   "4465077"   "4531527"   "4606352"   "4712562"   "4825869"   "4838275"   "4839822"   "4868763"   "4945476"   "4962491"   "4974607"   "4975840"   "5012411"   "5023785"   "5030948"   "5054493"   "5099424"   "5113869"   "5193541").PN. OR ("5594638"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/04 12:17
L5	121	("4220160"   "4315309"   "4337377"   "4428381"   "4458693"   "4465077"   "4531527"   "4606352"   "4712562"   "4825869"   "4838275"   "4839822"   "4868763"   "4945476"   "4962491"   "4974607"   "4975840"   "5012411"   "5023785"   "5030948"   "5054493"   "5099424"   "5113869"   "5193541").PN. OR ("5594638"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/04 12:17
L6	1	5 and "backus naur"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/04 12:18
L7	3	L2 and 704/9.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/04 12:20
L8	3	L2 and 704/4-9.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/04 12:20

## EAST Search History

S1	86	medical same script\$4 same language	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 16:03
S2	2	("6182029").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/23 22:30
S3	2	("6055494").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/23 22:30
S4	98	medical same script\$4 same language	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 14:47
S5	46	S4 and embed\$4 and command	US-PGPUB; USPAT	OR	ON	2007/04/15 14:51
S6	20	S4 and embed\$4 same command	US-PGPUB; USPAT	OR	ON	2007/04/15 14:51
S7	98	medical same script\$4 same language	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 15:59
S8	2889425	WO 97/48059	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/28 09:48
S9	2	WO 97/48059	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/04/15 16:00

## EAST Search History

S10	103	medical same script\$4 same language	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/04 12:15
S11	3026635	WO 97/48059	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/28 09:48
S12	79163	S11 and johnson	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/28 09:48

RESUMED UPDATING

\*\*\*File 141, Reader's Guide Abstracts

\*\*\*

RELOADS COMPLETED

\*\*\*File 156, ToxFile

\*\*\*Files 154 & 155, MEDLINE

\*\*\*File 5, BIOSIS Previews - archival data added

\*\*\*Files 340, 341 & 942, CLAIMS/U.S. Patents - 2006 reload now online

\*\*\*

DATABASES REMOVED

Chemical Structure Searching now available in Prous Science Drug Data Report (F452), Prous Science Drugs of the Future (F453), IMS R&D Focus (F445/955), Pharmaprojects (F128/928), Beilstein Facts (F390), Derwent Chemistry Resource (F355) and Index Chemicus (File 302).

\*\*\*

>>>For the latest news about Dialog products, services, content<<<  
>>>and events, please visit What's New from Dialog at <<<  
>>><http://www.dialog.com/whatsnew/>. You can find news about<<<  
>>>a specific database by entering HELP NEWS <file number>.<<<

? Help Off Line

\* \* \*

Connecting to shayglass - Dialog - 290603

Connected to Dialog via SMS003155972

? b medical

>>>W: "MEDICAL" is not a valid category or service name

No valid files specified

No valid file banners found

>>>E: You may not BEGIN more than one service at a time

? b healthcare

>>>W: "HEALTHCARE" is not a valid category or service name

No valid files specified

No valid file banners found

>>>E: You may not BEGIN more than one service at a time

? b insure

>>>W: "INSURE" is not a valid category or service name

No valid files specified

No valid file banners found

>>>E: You may not BEGIN more than one service at a time

? b nftext

>>>W: "NFTEXT" is not a valid category or service name

No valid files specified

No valid file banners found

>>>E: You may not BEGIN more than one service at a time

? b 411

> Set Files all

> Select (backus(1N)aur) AND script?

>>>W: I/O error in file 220

20 databases have items, of 564 searched.

Hits    File Name

2        2 INSPEC 1898-2007/Aug W4



1       8 Ei Compendex(R) 1884-2007/Aug W3  
 1       15 ABI/Inform(R) 1971-2007/Sep 03  
 3       47 Gale Group Magazine DB(TM) 1959-2007/Aug 20  
 4       88 Gale Group Business A.R.T.S. 1976-2007/Aug 24  
 1       148 Gale Group Trade & Industry DB 1976-2007/Aug 28  
 1       211 Gale Group Newsearch(TM) 2007/Aug 29  
 2       275 Gale Group Computer DB(TM) 1983-2007/Jul 24  
 4       324 German Patents Fulltext 1967-200734  
 3       340 CLAIMS(R)/US Patent 1950-07/Aug 30  
 1       345 Inpadoc/Fam.& Legal Stat 1836-2007/UD=200734  
 21      348 EUROPEAN PATENTS 1978-2007/ 200734  
 46      349 PCT FULLTEXT 1979-2007/UB=20070823UT=20070816  
 1       484 Periodical Abs Plustext 1986-2007/Aug W3  
 1       647 CMP Computer Fulltext 1988-2007/Sep W4  
 153     654 US PAT.FULL. 1976-2007/AUG 30  
 1       990 NewsRoom Current Jan 1 -2007/Sep 03  
 1       991 NewsRoom 2006 Jan 1-2006/Dec 31  
 2       993 NewsRoom 2004  
 2       996 NewsRoom 2000-2001

> Set Files 15,275,148,2,348,349  
> Select (backus(1N)naur) AND script?  
All databases have items, of 6 searched.

Hits    File Name

1	15	<u>ABI/Inform(R) 1971-2007/Sep 03</u>
2	275	<u>Gale Group Computer DB(TM) 1983-2007/Jul 24</u>
1	148	<u>Gale Group Trade &amp; Industry DB 1976-2007/Aug 28</u>
2	2	<u>INSPEC 1898-2007/Aug W4</u>
21	348	<u>EUROPEAN PATENTS 1978-2007/ 200734</u>
46	349	<u>PCT FULLTEXT 1979-2007/UB=20070823UT=20070816</u>

**Estimated Cost Summary**

Project		Client		Charge Code		Searcher		Job		Service Code	User Number
						shayglass				51	290603
Date		Time		SessionID		Subsession		Subaccount			
09/04/2007		08:31:06		1		3					
Data Base	Dial Units	Access Charge	Print Credit	Types	Prints	Report	Rank	Links	CSS	Total	
411	4.0010	11.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.76	
Sub Totals	4.0010	\$11.76	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11.76	
Session Totals	4.8640	\$14.39		Telecom	\$1.92					\$16.29	

Begin 15,275,148,2,348,349

[File 15] **ABI/Inform(R)** 1971-2007/Sep 03

(c) 2007 ProQuest Info&Learning. All rights reserved.

[File 275] **Gale Group Computer DB(TM)** 1983-2007/Jul 24

(c) 2007 The Gale Group. All rights reserved.

[File 148] **Gale Group Trade & Industry DB** 1976-2007/Aug 28

(c)2007 The Gale Group. All rights reserved.

*\*File 148: The CURRENT feature is not working in File 148. See HELP NEWS148.*

[File 2] **INSPEC** 1898-2007/Aug W4

(c) 2007 Institution of Electrical Engineers. All rights reserved.

[File 348] **EUROPEAN PATENTS** 1978-2007/ 200734

(c) 2007 European Patent Office. All rights reserved.

*\*File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 349] **PCT FULLTEXT** 1979-2007/UB=20070823UT=20070816

(c) 2007 WIPO/Thomson. All rights reserved.

*\*File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

SELECT (backus(1N)naur) AND script?  
2753 BACKUS

550 NAUR  
444 BACKUS (1N) NAUR  
152617 SCRIPT?  
S1 73 SELECT (BACKUS (1N) NAUR) AND SCRIPT?

?  
? t s1/3,k/all

1/3,K/1 (Item 1 from file: 15) Links

Fulltext available through: ScienceDirect

ABI/Inform(R)

(c) 2007 ProQuest Info&Learning. All rights reserved.

02699615 426429911

**XML integration and toolkit for B2B applications**

Nicolle, Christophe; Yetongnon, Kokou; Simon, Jean-Claude

Journal of Database Management vl4n4 pp: 33-58

Oct-Dec 2003

ISSN: 1063-8016 Journal Code: DAN

Word Count: 6881

**Text:**

...administrators to graphically describe local data model concepts and map them into Description Logic and **Backus-Naur** Form (BNF) descriptions. The Description Logic represents the semantic of the concepts and the connection...

...EDITOR TOOL

The X-Editor tool maps local data models to description logic and BNF (**Backus-Naur** form) descriptions in which both the semantic and the structural parts of data model concepts...represents the schema and data that are contained in the database.

Table 1: Oracle creation **script**

The cooperative layer represents all levels of abstractions. At this layer, XSLT style-sheets (noted...

...process, we use the example given in Table 1. This example is an Oracle creation **script**. The **script** talks about machines, which make products.

The metamodel level includes a set of tools and...

1/3,K/2 (Item 1 from file: 275) Links

Gale Group Computer DB(TM)

(c) 2007 The Gale Group. All rights reserved.

01437216 **Supplier Number:** 10895208 (Use Format 7 Or 9 For FULL TEXT )

**DOS 5.0 (Microsoft Corp.'s improved operating system)(includes related articles on DOS 5.0 for Windows and on DOS 5.0 and Norton Utilities 6.0) (part 1) (Cover Story)**

Somerson, Paul

PC-Computing , v4 , n7 , p97(17)

July , 1991

**Document Type:** Cover Story

ISSN: 0899-1847

**Language:** ENGLISH **Record Type:** FULLTEXT; ABSTRACT

**Word Count:** 7717 **Line Count:** 00570

...Assuming you haven't hidden any subdirectories, if you know there's a file called **SCRIPT.LST** on your disk but can't remember where it's stashed, you can just type

DIR \**SCRIPT.LST** /S

DOS 5.0 will display the normal directory listing for that file and

...

...how many files with that exact name are on your disk.

The initial \ preceding the **SCRIPT.LST** filename is important because it tells DOS to begin looking in the root directory...

...similarly named files. To find every file on your disk that begins with the letters **SCRIPT**," you'd just type

DIR \**SCRIPT**\*.\* /S This would list files like

**SCRIPT.LST**

**SCRIPT2.LST**

**SCRIPT.OLD**

**SCRIPT91**

**SCRIPT90.WKS** that were in various subdirectories, along with the names of the subdirectories in which...the scheduler the specified number of clock ticks for background printing").

Microsoft uses something called **Backus-Naur Form**" to indicate syntax. The rules are simple:

I means or," as in ECHO [ON...UNDELETE commands, and everything you need to know about DOSKEY, EDIT, and QBASIC. Plus, DEBUG **scripts** and batch files for formatting disks via menus, and programs that automatically load and unload...

1/3,K/3 (Item 2 from file: 275) Links

Gale Group Computer DB(TM)

(c) 2007 The Gale Group. All rights reserved.

01205859 **Supplier Number:** 04770692 (Use Format 7 Or 9 For FULL TEXT )

**Dialects of dBASE. (Software Review) (evaluation)**

Mirecki, Ted

PC Tech Journal , v5 , n4 , p46(14)

April , 1987

**Document Type:** evaluation

ISSN: 0738-0194

**Language:** ENGLISH **Record Type:** FULLTEXT; ABSTRACT

**Word Count:** 11545 **Line Count:** 00894

...of popularity it is more successful than many languages with blue-blooded pedigrees, written in **Backus-Naur** notation. Thus, it is not surprising that dBASE III has acquired that accoutrement of a...choices. For example, K moves the record pointer in a data file, Z executes a **script** of debugging commands from a disk file, ] clears the screen, and [ ejects a page on...

1/3,K/4 (Item 1 from file: 148) Links

Gale Group Trade & Industry DB

(c)2007 The Gale Group. All rights reserved.

06492604 **Supplier Number:** 14081976 (USE FORMAT 7 OR 9 FOR FULL TEXT )

**The definitive statement on syntax statements. (Visual Literacy: Going beyond words in technical communications)**

Horton, William

Technical Communication , v40 , n2 , p320(5)

May , 1993

ISSN: 0049-3155

**Language:** ENGLISH

**Record Type:** FULLTEXT; ABSTRACT

**Word Count:** 2858 **Line Count:** 00220

...Most programming is done in textual languages and even the Macintosh has acquired a textual **scripting** language. No major word processor, spreadsheet, or database can hope to conquer its market unless it includes a rich **scripting** or macro language. If users are to accept and gainfully exploit these features, we must...

...version with others. The failure of the paragraph form shows why we need syntax statements.

**Backus-Naur Form**

One of the most common ways of describing the syntax of a computer statement is **Backus-Naur Form**, or BNF to the cognoscenti. In BNF we might describe the syntax of our...Henno 1988). Users with diagrams scored 90 percent correct compared with just 55 percent for **Backus-Naur Form** (Braz 1990). According to a survey of the programmers using Tandem's TACL Programmer...

1/3,K/5 (Item 1 from file: 2) [Links](#)

Fulltext available through: [ScienceDirect](#)

INSPEC

(c) 2007 Institution of Electrical Engineers. All rights reserved.

09412944 INSPEC Abstract Number: C2005-06-6140D-023

**Title:** JXPL: an XML-based scripting language for workflow execution in a grid environment

**Author** Hunt, C.S.; Ferner, C.S.; Brown, J.L.

**Author Affiliation:** Dept. of Comput. Sci., North Carolina Univ., Wilmington, NC, USA

**Conference Title:** Proceedings of the IEEE SoutheastCon 2005 (IEEE Cat. No.05CH37624) p. 345-50

**Editor(s):** Levy, Y.

**Publisher:** IEEE , Piscataway, NJ, USA

**Publication Date:** 2005 **Country of Publication:** USA xvii+692 pp.

**ISBN:** 0 7803 8865 8 **Material Identity Number:** XX-2005-00635

**U.S. Copyright Clearance Center Code:** 0-7803-8865-8/05/\$20.00

**Conference Title:** Proceedings of the IEEE SoutheastCon 2005

**Conference Sponsor:** Region 3 of the Inst. of Electr. and Electron. Eng.; IEEE Broward Sect.; Nova Southeastern Univ

**Conference Date:** 8-10 April 2005 **Conference Location:** Ft. Lauderdale, FL, USA

**Language:** English

**Subfile:** C

Copyright 2005, IEE

**Title:** JXPL: an XML-based scripting language for workflow execution in a grid environment

**Abstract:** JXPL is a new functional scripting language that uses XML syntax. JXPL is intended to be a workflow language that easily... the language. To aid our discussion, we introduce the grammar for JXPL using the extended Backus Naur form (EBNF). We also include examples and detail predefined functions. We conclude with current and...

**Identifiers:** ...XML-based scripting language... extended Backus Naur form... functional scripting language...



1/3,K/6 (Item 2 from file: 2) [Links](#)

Fulltext available through: [custom link](#) [USPTO Full Text Retrieval Options](#)

INSPEC

(c) 2007 Institution of Electrical Engineers. All rights reserved.

08878039 **INSPEC Abstract Number:** C2004-04-6150C-022

**Title:** Extreme parsing

**Author** Downey, K.F.

**Journal:** Dr. Dobb's Journal vol.28, no.8 p. 33-7

**Publisher:** CMP Media LLC ,

**Publication Date:** Aug. 2003 **Country of Publication:** USA

**CODEN:** DDJSDM **ISSN:** 1044-789X

**SICI:** 1044-789X(200308)28:8L:33:EP;1-P

**Material Identity Number:** B719-2003-007

**Language:** English

**Subfile:** C

Copyright 2004, IEE

**Abstract:** ...for a long time. SableCC's syntax is easy to learn and close to Extended **Backus-Naur Format (EBNF)**, the standard grammar notation used in major specifications. To satisfy the continuous integration and test-driven development principles, we need a one-touch build **script** . Since SableCC comes with an Ant task, we can integrate the creation of the lexer...

**Identifiers:** ...Extended **Backus-Naur Format**... ...one-touch build **script**;

1/3K/7 (Item 1 from file: 348) [Links](#)

## EUROPEAN PATENTS

(c) 2007 European Patent Office. All rights reserved.

02213395

### Method for referencing remote element of content, method for providing content with remote elements and system for distributing content

Verfahren zum Hinweisen auf aussere Elemente des Inhalts, Verfahren zur Anlieferung von Inhalt und System zur Verteilung von Inhalt

Methode d'indication des elements exterieurs du contenu, methode pour procurer du contenu avec les elements exterieurs et systeme de distribution du contenu

#### Patent Assignee:

- **ADVANCED DIGITAL BROADCAST S.A.**; (7095160)  
Impasse Colombelle, 8; 1218 Grand-Saconnex; (CH)  
(Applicant designated States: all)

#### Inventor:

- **Gajda, Marcin**  
ul.9-go Maja 16/11; 68-219 Tuplice; (PL)

#### Legal Representative:

- **Hudy, Ludwik (137711)**  
Kancelaria Patentowa Patelha Czernichow 4; 32-070 Czernichow, Krakow; (PL)

	Country	Number	Kind	Date	
Patent	EP	1764973	A1	20070321	(Basic)
Application	EP	2005461003		20050916	

#### Designated States:

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LI; LT;  
LU; LV; MC; NL; PL; PT; RO; SE; SI; SK;  
TR;

#### Extended Designated States:

AL; BA; HR; MK; YU;

IPC	Level	Value	Position	Status	Version	Action	Source	Office
H04L-0029/06	A	I	F	B	20060101	20060206	H	EP

**Abstract Word Count:** 211

**NOTE:** 2

**NOTE:** Figure number on first page: 2

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English

Procedural: English

Application: pl

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200712	1046
SPEC A	(English)	200712	5602
Total Word Count (Document A) 6648			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 6648			

**Specification:** ...application server may be integrated with, or cooperate with network applications, for example a PHP **script** for generating web page content.

There are various methods for addressing hosts in networked environments... by a predefined base content template assigned to a specific request or dynamically by a **script**.

The method for providing content with remote elements can be further performed by caching data... of the base content arranged to a specific grammar, which will be described using the **Backus-Naur** form (BNF):

BC ::= PSC SSC PSC

PSC ::= ASCII PSC ) epsilon

SSC ::= PSC SSC PSC SL...which the sequence is dynamically generated may be defined by a locally or remotely stored **script**, for example a PHP **script**, or may be an internal functionality of the application server. The **script** may dynamically identify the individual local and/or remote elements of the content to be... generation, together with any additional data describing the elements. In case of special elements, the **script** may generate a special locator of a predefined structure, similarly as described in procedure of Fig. 6. Each element to be generated is identified in step 703 according to the **script** and generated in steps 704-606. Plain sub-content PSC is generated in step 704... as described in more details in Fig. 8. After each sub-content defined by the **script** is generated, it is provided to the client application in step 707, and the following... specified, for example, by an html base content template or by a step of a **script**. The request includes a special locator template, which specifies the constant characters of the special...

**Claims:** ...characterized in that the structure of the requested base content is identified dynamically by a **script**.

16. The method according to claim 13, further comprising the steps of: caching data related...

1/3K/8 (Item 2 from file: 348) [Links](#)

**EUROPEAN PATENTS**

(c) 2007 European Patent Office. All rights reserved.

01978023

**Systems and methods for data compression and decompression**

System und Verfahren zur Kompression und Dekompression von Daten

Systemes et methodes de compression et de decompression de donnees

**Patent Assignee:**

- **Elsevier, Inc.**; (5551800)  
360 Park Avenue South; New York, NY 10010; (US)  
(Applicant designated States: all)

**Inventor:**

- **Ross, Scott Nathan**  
1878 Sally Circle; Miamisburg, OH 45342; (US)

**Legal Representative:**

- **Dunlop, Hugh Christopher et al (59552)**  
R G C Jenkins & Co. 26 Caxton Street; London SW1H 0RJ; (GB)

	Country	Number	Kind	Date	
Patent	EP	1594252	A2	20051109	(Basic)
	EP	1594252	A3	20051228	
Application	EP	2005252745		20050504	
Priorities	US	568304	P	20040504	
	US	603604	P	20040823	

**Designated States:**

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LI; LT;  
LU; MC; NL; PL; PT; RO; SE; SI; SK; TR;

**Extended Designated States:**

AL; BA; HR; LV; MK; YU;

**International Patent Class (V7):** H04L-009/32 ; H03M-007/30 ; H03M-013/09 ; G06T-009/00 ; G06F-017/30 ;  
G06F-017/22 ; H04L-001/00 **Abstract Word Count:** 106

**NOTE:** 1

**NOTE:** Figure number on first page: 1

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200545	1212
SPEC A	(English)	200545	14149
Total Word Count (Document A) 15361			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 15361			

**Specification:** ...verifying them according to Document Type Definitions (DTDs) if the signature file is XML, SGML, **Backus-Naur**, or any other grammar. Additionally, a file utility may have optional arguments that can exclude... ..modulus calculation. It also has extended options to pick which things to run. The Perl **script** further demonstrates the utility and usefulness of XML signature beyond the W3C. The Perl files...forward

compress.xml -- This is a basic xml markup generated by the sha6b.pl Perl **script**.

compress(underscore)modulus2.xml -- This is another version of the xml output by...matching value is found

compress(underscore)modulus.xml -- This xml file generated by the Perl **script** sha6b.pl demonstrates the output of a file signature package with modulus tags.

palindrome.txt...

1/3K/9 (Item 3 from file: 348) Links

**EUROPEAN PATENTS**

(c) 2007 European Patent Office. All rights reserved.

01948291

**Media extension apparatus and methods for use in an information network**

Medienerweiterungsgerät und Verfahren zur Verwendung in einem Informationsnetzwerk

Dispositif d'extension des medias et methodes d'utilisation dans un reseau d'informations

**Patent Assignee:**

- **Time Warner Cable, Inc.;** (4602740)  
290 Harbour Drive; Stamford, CT 06902; (US)  
(Applicant designated States: all)

**Inventor:**

- **Ladd, Patrick**  
1718 Medinah Road; San Marcos, California 92069; (US)
- **Sarosi, George W.**  
12018 Delmahoy Drive; Charlotte, North Carolina 28277; (US)

**Legal Representative:**

- **Fitchett, Stuart Paul (83743)**  
Saunders & Dolleymore, 9 Rickmansworth Road Watford,; Hertfordshire WD18 0JU; (GB)

	Country	Number	Kind	Date	
Patent	EP	1569103	A2	20050831	(Basic)
Application	EP	2005003475		20050217	
Priorities	US	782680		20040218	

**Designated States:**

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LI; LT;  
LU; MC; NL; PL; PT; RO; SE; SI; SK; TR;

**Extended Designated States:**

AL; BA; HR; LV; MK; YU;

**International Patent Class (V7):** G06F-009/445; H04N-005/00

**NOTE:** 1

**NOTE:** Figure number on first page: 1

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200535	1250
SPEC A	(English)	200535	10433
Total Word Count (Document A) 11683			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 11683			

**Specification:** ...of an ACAP-X application is a multimedia document composed of XHTML markup, style rules, scripts, and embedded graphics, video, and audio.

Application environments are similarly classified into two categories depending...the media or data source name. Each of the foregoing standards has a standard specific **Backus-Naur** form (BNF) for defining supported Locator forms and terms, although such BNF form is not...

1/3K/10 (Item 4 from file: 348) [Links](#)

**EUROPEAN PATENTS**

(c) 2007 European Patent Office. All rights reserved.

01782031

**Markup language extension enabling speech recognition for controlling an application**

Erweiterungen einer Markierungssprache um Spracherkennung zu ermöglichen zur Steuerung von Anwendungen

Extensions de langage de balisage permettant de contrôler une application par reconnaissance vocale

**Patent Assignee:**

- **ALCATEL**; (201876)  
54, rue La Boetie; 75008 Paris; (FR)  
(Applicant designated States: all)

**Inventor:**

- **Sienel Jurgen**  
Albrecht-Goes-Weg 19; 71229 Leonberg; (DE)

**Legal Representative:**

- **Rausch, Gabriele, Dr. et al (80471)**  
Alcatel Intellectual Property Department, Stuttgart; 70430 Stuttgart; (DE)

	Country	Number	Kind	Date	
Patent	EP	1455282	A1	20040908	(Basic)
	EP	1455282	A1	20040908	
Application	EP	2003290531		20030306	

**Designated States:**

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LI; LU; MC;  
NL; PT; RO; SE; SI; SK; TR;

**Extended Designated States:**

AL; LT; LV; MK;

**International Patent Class (V7):** G06F-017/30 **Abstract Word Count:** 102

**NOTE:** 5

**NOTE:** Figure number on first page: 5

Type	Pub. Date	Kind	Text
Publication: English			
Procedural: English			
Application: English			

Available Text	Language	Update	Word Count
----------------	----------	--------	------------



CLAIMS A	(English)	200437	437
SPEC A	(English)	200437	4034
Total Word Count (Document A) 4471			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 4471			

**Specification:** ...to implement a strategy for determining the user's focus and intent is an interaction **script**. An interaction **script** may be expressed in languages such as Tsuneo Nitta's XISL , or languages used for...  
...dynamically at runtime. The grammar is defined in a specific format which is referred as **Backus-Naur-Form** (BNF). Beside the natural language specification, the BNF contains attributes comprising descriptions controlling the...

1/3K/11 (Item 5 from file: 348) [Links](#)

EUROPEAN PATENTS

(c) 2007 European Patent Office. All rights reserved.

01700456

**Method, terminal, browser application, and mark-up language for multimodal interaction between a user and a terminal**

Verfahren, Terminal, Browser und Markierungssprache für multimodale Interaktionen zwischen einem Benutzer und dem Terminal

Methode, terminal, navigateur et langage balise pour gérer des interactions multimodales entre un utilisateur et le terminal

**Patent Assignee:**

- **ALCATEL**; (201876)  
54, rue La Boétie; 75008 Paris; (FR)  
(Applicant designated States: all)

**Inventor:**

- **Sienel, Jurgen**  
Alte Dorfstrasse 5; 71229 Leonberg; (DE)
- **Kopp, Dieter**  
Brandstrasse 1; 75428 Illingen; (DE)

**Legal Representative:**

- **Rausch, Gabriele, Dr. et al (80471)**  
Alcatel Intellectual Property Department, Stuttgart; 70430 Stuttgart; (DE)

	Country	Number	Kind	Date	
Patent	EP	1394692	A1	20040303	(Basic)
Application	EP	2002360230		20020805	

**Designated States:**

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; IE; IT; LI; LU; MC; NL;  
PT; SE; SK; TR;

**Extended Designated States:**

AL; LT; LV; MK; RO; SI;

**International Patent Class (V7):** G06F-017/30 **Abstract Word Count:** 127

**NOTE:** 1

**NOTE:** Figure number on first page: 1

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English

Procedural: English

# Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200410	696
SPEC A	(English)	200410	7928
Total Word Count (Document A) 8624			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 8624			

**Specification:** ...voice input by synchronizing events from two different browsers, by using applets or server based **scripts**, which is rather difficult if the corresponding pages have to be generated automatically. Summary of...and the text to be spoken and recognised. The rule is explained below in the **Backus Naur Form** (BNF) notation  
deliminator ::= < (vertical bar) >; Keyword ::= < > action >; ld ::= < string... or extracting of input data for latter analysing and processing might be realised with CGI **scripts**. Also, a dedicated communication protocol between the front-end (client) and back-end (server), which...

1/3K/12 (Item 6 from file: 348) [Links](#)

**EUROPEAN PATENTS**

(c) 2007 European Patent Office. All rights reserved.

01681849

**Method for accessing a virtual private network resource based on uniform resource identifiers**

Verfahren zum zugreifen virtuelles privates Netzwerkbetriebs basierend auf uniform resource identifikatoren

Procede pour acceder a des ressources d' un reseau prive virtuel sur la base des ressources uniformes d'identification

**Patent Assignee:**

- **ALCATEL;** (201871)  
54, rue la Boetie; 75008 Paris; (FR)  
(Applicant designated States: all)

**Inventor:**

- **Westerhuis, Frans**  
Vlaanderenstraat 7; 2000 Antwerpen; (BE)
- **Vermeulen, Steven**  
Hooionk 12; 2280 Grobbendonk; (BE)
- **Handekyn, Koen**  
N. Zannekinstraat 29; 9000 Gent; (BE)

**Legal Representative:**

- **Brose, Gerhard et al (55224)**  
Alcatel, Intellectual Property Department Stuttgart; 70430 Stuttgart; (DE)

	Country	Number	Kind	Date	
Patent	EP	1381190	A1	20040114	(Basic)
Application	EP	2002360207		20020712	

**Designated States:**

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; IE; IT; LI; LU; MC; NL;  
PT; SE; SK; TR;

**Extended Designated States:**

AL; LT; LV; MK; RO; SI;

**International Patent Class (V7):** H04L-012/46; H04L-029/08**Abstract Word Count:** 135

**NOTE:** 3

**NOTE:** Figure number on first page: 3

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200403	780
SPEC A	(English)	200403	3824
Total Word Count (Document A) 4604			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 4604			

**Specification:** ...maintain a conversation between a given client and server, but it can be manipulated using **scripting** to appear as if state is being maintained. Do not confuse HTML (Markup language for... ..used to define the formal URI syntax, see <http://www.ietf.org/rfc/rfc822.txt> (**Backus-Naur** notation (more commonly known as BNF or **Backus-Naur Form**) is a formal mathematical way to describe a language, which was developed by John...

1/3K/13 (Item 7 from file: 348) [Links](#)

## EUROPEAN PATENTS

(c) 2007 European Patent Office. All rights reserved.

01566068

### A hierarchical protocol classification engine

Hirarchische Klassifizierungsautomat der Protokollen

Automate pour la classification hierarchique de protocoles

#### Patent Assignee:

- **ALCATEL**; (201876)  
54, rue La Boetie; 75008 Paris; (FR)  
(Applicant designated States: all)

#### Inventor:

- **Hemant, Jain**  
5814 Randleswood Court; San Jose, CA 95129; (US)
- **Rhoton, King**  
1690 Page Street; San Francisco, CA 94117; (US)
- **Sikka, Namit**  
390 Elan Village Lane, Apt. 428; San Jose, CA 95134; (US)

#### Legal Representative:

- **Dreiss, Fuhlendorf, Steimle & Becker (100861)**  
Patentanwalte, Postfach 10 37 62; 70032 Stuttgart; (DE)

	Country	Number	Kind	Date	
Patent	EP	1303086	A2	20030416	(Basic)
	EP	1303086	A3	20030604	
Application	EP	2002022625		20021009	
Priorities	US	328297	P	20011009	

#### Designated States:

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; IE; IT; LI; LU; MC; NL;  
PT; SE; SK; TR;

#### Extended Designated States:

AL; LT; LV; MK; RO; SI;

International Patent Class (V7): H04L-012/56; H04L-029/06Abstract Word Count: 79

NOTE: 1

NOTE: Figure number on first page: 1

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English  
Procedural: English  
Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200316	678
SPEC A	(English)	200316	6730
Total Word Count (Document A) 7408			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 7408			

**Specification:** ...via, for example, the IF input 202. To parse the protocol data, a protocol definition **script** may be defined. For example BNF ( **B**ackus **N**aur Form) grammar may be used to define grammar for the PDU, that can be parsed...

1/3K/14 (Item 8 from file: 348) [Links](#)

**EUROPEAN PATENTS**

(c) 2007 European Patent Office. All rights reserved.

01259790

**Method and system for addressing audio-visual content fragments**

Verfahren und System zum Adressieren von audio-visuellen Inhaltsstücken

Methode et système d'adressage de fragments audio-visuels

**Patent Assignee:**

- **CANON KABUSHIKI KAISHA; (542361)**  
30-2, 3-chome, Shimomaruko, Ohta-ku; Tokyo; (JP)  
(Applicant designated States: all)

**Inventor:**

- **Wan, Ernest Yiu Cheong**  
2A Wilshire Avenue; Carlingford, New South Wales 2118; (AU)

**Legal Representative:**

- **Beresford, Keith Denis Lewis et al (28273)**  
BERESFORD & Co. 16 High Holborn; London WC1V 6BX; (GB)

	Country	Number	Kind	Date	
Patent	EP	1087309	A2	20010328	(Basic)
	EP	1087309	A3	20040526	
Application	EP	2000308391		20000925	
Priorities	AU	99PQ3122		19990927	

**Designated States:**

DE; FR; GB; IT;

**Extended Designated States:**

AL; LT; LV; MK; RO; SI;

**International Patent Class (V7):** G06F-017/30; G11B-027/00 **Abstract Word Count:** 96

**NOTE:** 9

**NOTE:** Figure number on first page: 9

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
SPEC A	(English)	200113	8096



Total Word Count (Document A) 8096
Total Word Count (Document B) 0
Total Word Count (All Documents) 8096

**Specification:** ...particularly relevant when Web pages are used in conjunction with a Common Gateway Interface (CGI) **scripting** application, which allows the Web page to become, in essence, the front end of a... examples given in the previous section assumed an XML document with the structure, in Extended **Backus-Naur** Form (ENBF) as follows:

doc ::= toc chapter+ appendix\* index

chapter ::= section+

section ::= para+

appendix ::= section...

1/3K/15 (Item 9 from file: 348) [Links](#)

**EUROPEAN PATENTS**

(c) 2007 European Patent Office. All rights reserved.

01213066

**Information management apparatus providing efficient management of multimedia titles in a client-server network**

Informationsverwaltungseinrichtung zum effizienten Verwalten von Multimedia-Titeln in einem Klient-Server-Netzwerk

Arrangement pour la gestion efficace de titres multimedia dans un reseau du type client-serveur

**Patent Assignee:**

- **MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.;** (1855501)  
1006, Oaza Kadoma; Kadoma-shi, Osaka; (JP)  
(Applicant designated States: all)

**Inventor:**

- **Uenoyama, Tsutomu**  
1-9-3, Tsuruma; Machida-shi, Tokyo; (JP)
- **Ohno, Toshiichi**  
1081-16, Ooyaguchi; Urawa-shi, Saitama-ken; (JP)
- **Kato, Masao**  
7-152-811, Isezaki-cho; Naka-ku, Yokohama; (JP)
- **Inagaki, Akira**  
1-21-3, Kanda, Suda-cho, Chiyoda-ku; Tokyo; (JP)

**Legal Representative:**

- **Manitz, Finsterwald & Partner GbR (100614)**  
Postfach 31 02 20; 80102 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	1054330	A2	20001122	(Basic)
	EP	1054330	A3	20050316	
Application	EP	2000118011		19960711	
Priorities	JP	95174661		19950711	
	JP	96121255		19960516	

**Designated States:**

DE; FR; GB;

**Related Parent Numbers: Patent (Application):**EP 753821 (EP 96111196)

**International Patent Class (V7):** G06F-017/30**Abstract Word Count:** 115

NOTE: NONE

NOTE: Figure number on first page: NONE

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200047	1527
SPEC A	(English)	200047	17795
Total Word Count (Document A) 19322			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 19322			

**Specification:** ...executed with the fourth embodiment;

Figs. 20A and 203 are flow diagrams respectively showing a **script** conversion procedure executed for the case of a single-file scenario file and the case... information management server, with the fourth embodiment;

Fig. 22A is a flow diagram of a **script** conversion procedure which is executed in the title acquisition processing of Fig. 21, for the... matter list, used with the fifth embodiment;

Fig. 27 is a flow diagram showing a **script** conversion procedure which is executed for preparing the subject matter list;

Figs. 28A, 28B are respective flow diagrams of **script** conversion procedures executed during title registration processing, with the fifth embodiment, for the case of... an entry in the title management information file may be for example use the BNF (**Backus Naur Form**) syntax, as shown in Fig. 4. As shown, this basically consists of title information...versa, will be referred to in the following description and in the appended claims as **script** conversion. The only type of **script** conversion which is specifically described with reference to the embodiments consists of syntax conversion of... it should be noted that the invention is not limited to such a type of **script** conversion.

As shown in Fig. 13, the information management server of this embodiment basically can be divided into three sections, i.e. a title processing section 2001, a **script** processing section 2002 and a data storage section 2003. The title processing section 2001 consists... 2401, a title registration section 2101 and a title acquisition and output section 2102. The **script** processing section 2002 consists of a **script** conversion section 2201, a conversion procedure selection section 2202 and a conversion procedure data storage... hypermedia titles, as described for the preceding embodiments).

Although not shown in the drawings, the **script** conversion section 2201 includes a memory having stored therein data, e.g. in the form of a table, which relates each of the client terminals to a corresponding appropriate **script** conversion procedure. In the case of those client terminals which generate scenario files in a... and which each use the same type of data location information syntax, a single predetermined **script** conversion procedure (referred to in the following as the standard **script** conversion procedure) can be used. In the case of other client terminals, a specific suitable **script** conversion procedure must be selected and used.

The operation of this embodiment will be described... the scenario file of the hypermedia title which is to be

registered.

Step 33: the **script** conversion section 2201 executes conversion processing of the subject matter data storage location information contained...as follows:

Step 331: based on the terminal name of the requesting client terminal, the **script** conversion section 2201 acquires connection information relating to that client terminal.

Step 332: based on the contents of the connection information, the **script** conversion section 2201 requests the conversion procedure selection section 2202 for the **script** conversion procedure which is appropriate for the client terminal concerned. The **script** conversion section 2201 includes a memory (not shown in the drawings) which holds respective sets... ..client terminals. Each of these sets of connection information may include information identifying an appropriate **script** conversion procedure for use in converting a client-generated scenario file to a scenario file... ..storage location syntax of the information management server. In response to a request from the **script** conversion section 2201 for a **script** conversion procedure, the conversion procedure selection section 2202 selects the specified one of the set of **script** conversion procedures which are held stored in the conversion procedure data storage device 2203, and passes the **script** conversion procedure data to the **script** conversion section 2201.

If the **script** conversion section 2201 does not specify a particular **script** conversion procedure to the conversion procedure selection section 2202, the conversion procedure selection section 2202 selects a standard **script** conversion procedure, which only executes path name conversion, i.e. converts each path name specified... ..does not consist, for example, of a (header file + scenario file) pair.

Step 333: the **script** conversion section 2201 executes conversion of the scenario sent from the client terminal, using the obtained **script** conversion procedure.

The concept of "connection information" used in step 331 is as follows. Each set of connection information held in the **script** conversion section 2201 can express the relationship between the path name syntax used within that... ..include (if the standard conversion procedure mentioned above cannot be used) the name of the **script** conversion procedure which is to be used for conversion of a scenario which is sent... ..as "server1") as "H". With the client01 terminal, it is necessary to use a specific **script** conversion procedure (for example, because that terminal utilizes a two-file scenario file structure) which... ..of scenario file structure from that of client01, and so requires use of a different **script** conversion procedure.

In the case of the client terminal which is designated as client03 in Fig. 233, the connection information for that client terminal does not specify a **script** conversion procedure name. In such a case, a standard **script** conversion procedure is utilized, of the form described hereinafter referring to Fig. 20A, which only... ..of the scenario file.

In general, it will only be necessary to use the standard **script** conversion procedure, i.e. executing only path name conversion, with the other **script** conversion procedures being required only in the case of a non-standard scenario file structure... ..relation to hypermedia title creation or access), since it becomes less necessary to create new **script** conversion procedure files for each new client terminal which is added. Hence, the overall amount... ..required for hypermedia title registration is reduced.

Figs. 20A, 20B show respective flow diagrams of **script** conversion procedures for executing step 333 of the flow diagram of Fig. 19. The processing ... ..and scenario file, as shown in the example of Fig 16c.

The steps in the **script** conversion procedure of Fig. 20A are as follows:

Step 3001: a line of the scenario...the conversion processing is terminated. Otherwise, processing returns to step 3001.

The steps in the **script** conversion procedure of Fig. 20B are as follows;

Step 3101: a line of the header...the requested hypermedia title is obtained from the file storage device 2301.

Step 43: the **script** conversion section 2201 converts the contents (i.e. storage location information contents) of the obtained ...file into the form which is appropriate for the requesting client terminal.

Step 44: the **script** conversion section 2201 transfers the resultant converted scenario to the requesting client terminal.

The scenario...registration processing, described above. In the same way as for title registration processing, if no **script** conversion procedure is specified in the connection information that has been registered for the requesting client terminal, then the conversion procedure selection section 2202 will select the standard **script** conversion procedure, for executing only path name syntax conversion, and passes this to the **script** conversion section 2201. In that case, the contents of step 43 of Fig. 21 are...is coupled to the title registration section 2101, title acquisition and output section 2102, and **script** conversion section 2201, and also to the file storage device 2301 of the data storage...file of the hypermedia title which is to be registered is acquired

Step 53: the **script** conversion section 2201 prepares the subject matter list, listing the subject matter data files (of...in the prepared subject matter list in the file storage device 2301.

Step 55: the **script** conversion section 2201 converts the acquired scenario file to a new scenario file, based on...to the example of Fig. 14B (i.e. header file and scenario file), then the **script** conversion section 2201 generates the subject matter list by using the contents of the header...shown in Fig. 29, which is coupled between the request receiving section 2401 and the **script** conversion section 2201 and title management information storage device 2303. The processing to actually generate the HTML files is performed by the **script** conversion section 2201, which is supplied with the necessary title management information by the HTML...2102 executes the necessary processing.

Step 5: if the request is for HTML files, the **script** conversion section 2201 and HTML output section 2103 executes HTML conversion and file output processing...the title management information from the title management information storage device 2303.

Step 602: the **script** conversion section 2201 converts the title management information to HTML files.

Fig. 32 is a...conversion processing step 602 of Fig. 31. This has the following contents:

Step 61: the **script** conversion section 2201 acquires the title management information from the HTML output section 2103.

Step...executed.

Step 64: the data of that title management information entry are processed by the **script** conversion section 2201, to

generate corresponding HTML files.

Step 65: if all of the title...306, which executes the functions which are executed by the HTML output section 2103 and **script** conversion section 2201 of the sixth embodiment described above to convert the title management information...

1/3K/16 (Item 10 from file: 348) [Links](#)

EUROPEAN PATENTS

(c) 2007 European Patent Office. All rights reserved.

01192710

**Interpretative network daemon implemented by generic main object**

Implementierung von einem interpretativen Netzwerk-Daemon-Prozess durch ein generisches Hauptobjekt

Implementation d'un processus demon interpretatif de reseau en utilisant un objet principal generique

**Patent Assignee:**

- **SIEMENS AKTIENGESELLSCHAFT;** (200520)  
Wittelsbacherplatz 2; 80333 Munchen; (DE)  
(Applicant designated States: all)

**Inventor:**

- **Becker, Detlef**  
Wasserwerkstrasse 10; 91096 Moehrendorf; (DE)
- **Dorn, Karlheinz**  
Erlenstrasse 29; 90562 Kalchreuth; (DE)
- **Quehl, Dietrich**  
Nurnberger Strasse 83; 91052 Erlangen; (DE)
- **Scharf, Christian**  
Am Alten Sportplatz 40; 91085 Weisendorf; (DE)

	Country	Number	Kind	Date	
Patent	EP	1037142	A2	20000920	(Basic)
Application	EP	99125234		19991217	
Priorities	US	215732		19981218	

**Designated States:**

AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LI; LU; MC; NL; PT; SE;

**Extended Designated States:**

AL; LT; LV; MK; RO; SI;

**International Patent Class (V7):** G06F-009/44; G06F-009/46**Abstract Word Count:** 60

**NOTE:** 1

**NOTE:** Figure number on first page: 1

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
----------------	----------	--------	------------

CLAIMS A	(English)	200038	170
SPEC A	(English)	200038	5226
Total Word Count (Document A) 5396			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 5396			

**Specification:** ...objects 26 is communicates through a service manager 28 from outside the service configurator 12.

**Scripting** tokens 30 provided definitions that are bound to the services objects, which are singleton objects.

**Scripting** results in an executable services configuration file 32. In the illustrated executable services configuration file 38 and the **scripting** tokens 30.

Service objects 34 are created, which load DLLs into the executable generic main... ..possibility of connection to these links. The application component 42 fills up the executable configuration **script** 32, which is an ASCII file.

Additional pages 44 and 46 show that many DLL...at run-time.

The primary syntactical elements in a config-file are presented below in **Backus/Naur** format (EBNF):

<svc-config-entries> ::=svc-config-entries svc-config-entry (vertical bar)NULL

<svc...



1/3K/17 (Item 11 from file: 348) [Links](#)

**EUROPEAN PATENTS**

(c) 2007 European Patent Office. All rights reserved.

01174666

**Utilising electronically accessible resources**

Gebrauch von durch Elektronik zugänglichen Betriebsmitteln

Utilisation de ressources électriquement accessibles

**Patent Assignee:**

- **CANON KABUSHIKI KAISHA; (542361)**  
30-2, 3-chome, Shimomaruko, Ohta-ku; Tokyo; (JP)  
(Applicant designated States: all)

**Inventor:**

- **Lennon, Alison Joan**  
554 Darling Street; Balmain, New South Wales 2041; (AU)

**Legal Representative:**

- **Beresford, Keith Denis Lewis et al (28273)**  
BERESFORD & Co. 2-5 Warwick Court, High Holborn; London WC1R 5DH; (GB)

	Country	Number	Kind	Date	
Patent	EP	1024443	A2	20000802	(Basic)
	EP	1024443	A3	20020109	
Application	EP	2000300638		20000128	
Priorities	AU	99PP8374		19990129	
	AU	99PP8375		19990129	
	AU	99PP8376		19990129	
	AU	99PP8377		19990129	
	AU	99PQ4612		19991213	

**Designated States:**

DE; FR; GB; IT; NL;

**Extended Designated States:**

AL; LT; LV; MK; RO; SI;

**International Patent Class (V7): G06F-017/30** **Abstract Word Count: 94**

**NOTE: 16**

**NOTE: Figure number on first page: 16**

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200031	5917
SPEC A	(English)	200031	32748
Total Word Count (Document A) 38665			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 38665			

**Specification:** ...specification. The DOM is a platform and language-neutral interface that will allow programs and scripts to dynamically access ...the serialisation syntax can support the use of an object model such as DOM and script language such as ECMAScript for specifying complex constraints. However, procedural code is generally a more...ancestry and attribute qualifiers. Preferably, the pattern string is parsed according to the following Extended Backus-Naur Form (EBNF) notation.

Each pattern can consist of one or more alternative patterns (ie., '(vertical...

1/3K/18 (Item 12 from file: 348) [Links](#)

**EUROPEAN PATENTS**

(c) 2007 European Patent Office. All rights reserved.

01158313

**METOH D FOR GENERATING COMPONENT-BASED SOURCE CODE**

KOMPONENTBASIERTES QUELLCODEGENERATORVERFAHREN

METHODE DE GENERATION DE CODE SOURCE POUR UN LANGUAGE SUPPORTANT LES  
COMPOSANTS

**Patent Assignee:**

- **Codagen Technologies Corp.**, (3003910)  
Suite 1020, 2075 University St.; Montreal, Quebec H3A 2L1; (CA)  
(Proprietor designated states: all)

**Inventor:**

- **BRASSARD, Michel**  
3193 De La Fonderie; Montreal, Quebec H1Y 3H9; (CA)

**Legal Representative:**

- **Modiano, Guido, Dr.-Ing. (40786)**  
Modiano, Josif, Pisanty & Staub, Baaderstrasse 3; 80469 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	1121637	A1	20010808	(Basic)
	EP	1121637	B1	20030507	
	WO	2000022517		20000420	
Application	EP	99947145		19991012	
	WO	99CA929		19991012	
Priorities	US	104014	P	19981013	
	US	145214	P	19990723	

**Designated States:**

AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LI; LU; MC; NL; PT; SE;

**International Patent Class (V7):** G06F-009/44

**NOTE:** No A-document published by EPO

Type	Pub. Date	Kind	Text
Publication: English			
Procedural: English			
Application: English			

Available Text	Language	Update	Word Count
----------------	----------	--------	------------

CLAIMS B	(English)	200319	824
CLAIMS B	(German)	200319	755
CLAIMS B	(French)	200319	917
SPEC B	(English)	200319	13674
Total Word Count (Document A) 0			
Total Word Count (Document B) 16170			
Total Word Count (All Documents) 16170			

**Specification:** ...limitations. Some modeling tool vendors expose their code generation algorithms in the form of a **scripting** language.

Modifying these **scripts** will further complicate the development process, however, since the development team will now have to maintain these **scripts** in order to generate useful code and doing so requires a far deeper understanding of... the modeling tool than that required by an object-oriented development environment. Furthermore, by modifying **scripts** the organization cuts itself off from the vendors' code generator support staff and undermines upgrade efforts as the modeling vendor releases new software versions.

## SCRIPTING

In some cases, even without access to a modeling tool's code generation algorithms, a developer can still use a **scripting** language to actually build a personalized source code generator for a particular target language.

This... burden of development and maintenance. Rather than maintaining code manually, developers must now maintain the **scripts** that generate the code. Unfortunately, the resulting code is hard to use and difficult to maintain and evolve because the target source code is found in broken pieces inside the **scripting** language and it must be modified in the proper sequence. This is a problem that extends far beyond the capabilities of these tools. Furthermore, altering the **scripts** to target a new language or development environment is an intimidating challenge.

## 4GL

Fourth-generation...classes generated for VapAccount;

FIG. 13 illustrates a specific syntax for the model declaration, in **Backus-Naur** format, that could be used to implement a preferred embodiment;

FIG. 14 illustrates a specific syntax for the set of generation instructions, in **Backus-Naur** format, that could be used to implement a preferred embodiment;

DETAILED DESCRIPTION OF THE PREFERRED... the processing done on the sets of generation instructions. FIG. 13 and FIG. 14 are **Backus-Naur** diagrams that represent the syntax for the set of generation instructions corresponding to the flow ...to those skilled in the art. Accordingly, the description of the flow charts and the **Backus-Naur** diagrams should be taken as illustrative of the invention and not in a limiting sense...

1/3K/19 (Item 13 from file: 348) [Links](#)

**EUROPEAN PATENTS**

(c) 2007 European Patent Office. All rights reserved.

01045126

**Multimedia call signalling system and method**

System und Verfahren für Multimedia-Anrufsignalisierung

Système et méthode pour signalisation d'appel multimedia

**Patent Assignee:**

- **Nortel Networks Limited;** (3029040)  
World Trade Center of Montreal, 380 St. Antoine Street West, 8th floor; Montreal, Quebec H2Y 3Y4; (CA)  
(Applicant designated States: all)

**Inventor:**

- **Wong, Chi-Keung**  
27 Ivylea Street; Nepean, Ontario, K2G 4X1; (CA)

**Legal Representative:**

- **Ertl, Nicholas Justin et al (81413)**  
Elkington and Fife, Prospect House, 8 Pembroke Road; Sevenoaks, Kent TN13 1XR; (GB)

	Country	Number	Kind	Date	
Patent	EP	924918	A2	19990623	(Basic)
	EP	924918	A3	20011121	
Application	EP	98309264		19981112	
Priorities	US	992765		19971218	

**Designated States:**

DE; FR; GB;

**Extended Designated States:**

AL; LT; LV; MK; RO; SI;

**International Patent Class (V7):** H04M-007/00; H04M-003/42; H04L-029/06 **Abstract Word Count:** 141

**NOTE:** 1

**NOTE:** Figure number on first page: 1

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9925	772

SPEC A	(English)	9925	14846
Total Word Count (Document A) 15618			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 15618			

**Specification:** ...MIME (Multipurpose Internet Mail Extensions) format. The following message formats are defined using BNF's (**Backus Naur Forms**) but this may not necessarily be the case. MIME Signalling Message BNF

This is...the user's account name and password.

3. The ADSI server will download an ADSI **script** to prompt the user with additional destination information such as:

callee address

medium (e.g... ..distance or through Internet Gateway)

4. If there is a callee address handler, an ADSI **script** can be downloaded to the terminal to acquire more information.

5. When the data input...

1/3K/20 (Item 14 from file: 348) [Links](#)

**EUROPEAN PATENTS**

(c) 2007 European Patent Office. All rights reserved.

01037144

**SYSTEM AND METHOD USING NATURAL LANGUAGE UNDERSTANDING FOR SPEECH  
CONTROLLED APPLICATION**

**NATURLICHE SPRACHE VERSTEHENDES VERFAHREN UND VERSTEHENDE VORRICHTUNG ZUR  
SPRACHSTEUERUNG EINER ANWENDUNG**

**SYSTEME ET PROCEDE UTILISANT LA COMPREHENSION D'UN LANGAGE NATUREL AFIN DE  
L'APPLIQUER A UNE COMMANDE VOCALE**

**Patent Assignee:**

- **UNISYS CORPORATION;** (842794)  
Township Line and Union Meeting Roads P.O. Box 500; Blue Bell, PA 19424-0001; (US)  
(Proprietor designated states: all)

**Inventor:**

- **SCHOLZ, Karl, Wilmer**  
203 Vassar Circle; Strafford, PA 19087; (US)
- **BLUE, Reginald, Victor**  
218 Heritage Lane; Exton, PA 19341; (US)
- **DIEDRICHS, Raymond, Alan**  
671 New Galena Road; Chalfont, PA 18194; (US)
- **WALSH, Joseph, Patrick**  
105 Andrea Lane; Spring City, PA 19475; (US)

**Legal Representative:**

- **Modiano, Guido, Dr.-Ing. et al (40786)**  
Modiano, Josif, Pisanty & Staub, Baaderstrasse 3; 80469 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	1016076	A1	20000705	(Basic)
	EP	1016076	B1	20030502	
	WO	99014743		19990325	
Application	EP	98947098		19980917	
	WO	98US19433		19980917	
Priorities	US	932938		19970917	

**Designated States:**

AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LI; LU; MC; NL; PT; SE;

**International Patent Class (V7):** G10L-015/26

**NOTE:** No A-document published by EPO

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200318	796
CLAIMS B	(German)	200318	764
CLAIMS B	(French)	200318	980
SPEC B	(English)	200318	7436
Total Word Count (Document A) 0			
Total Word Count (Document B) 9976			
Total Word Count (All Documents) 9976			

**Specification:** ...like", followed by 2) either "hot dogs" or "hamburgers". This notation is referred to as **Backus-Naur-Form (BNF)**, a form of grammar that uses logical ANDs and ORs. The preferred embodiment...126) is particularly convenient when the underlying IVR (130) is done in a low level **scripting** language, such as Vos (by Parity) or BlaBla (by MediaSoft), that does not directly support...



1/3K/21 (Item 15 from file: 348) [Links](#)

EUROPEAN PATENTS

(c) 2007 European Patent Office. All rights reserved.

00857120

**Tool for generating and executing graphical commands**

Werkzeug zur Erzeugung und Ausführung von graphischen Benutzerschnittstellenbefehlen

Outil de generation et d'execution de commandes a interface graphique

**Patent Assignee:**

- **BULL S.A.**; (244471)  
68, route de Versailles; 78430 Louveciennes; (FR)  
(Proprietor designated states: all)

**Inventor:**

- **Bassier, Jean-Francois**  
4, avenue du Petit Val; F-94370 Sucy en Brie; (FR)
- **Sitbon, Gerard**  
12 rue Gagnee; F-94400 Vitry; (FR)
- **Champeval, Didier**  
4, impasse du Bois; F-78370 Plaisir; (FR)
- **Levillain, Olivier**  
18 bis rue du Moulinet; F-78890 Garancieres; (FR)

**Legal Representative:**

- **Gouesmel, Daniel (15918)**  
Direction de la Propriete Intellectuelle BULL SA, Poste Courrier 59C18, 68 route de Versailles, BP 45; 78430 Louveciennes; (FR)

	Country	Number	Kind	Date	
Patent	EP	790553	A1	19970820	(Basic)
	EP	790553	B1	20010425	
Application	EP	96400319		19960216	
Priorities	EP	96400319		19960216	

**Designated States:**

DE; ES; FR; GB; IT; SE;

**International Patent Class (V7):** G06F-009/44**Abstract Word Count:** 119

**NOTE:** 1

**NOTE:** Figure number on first page: 1

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: French

Procedural: French

Application: French

Available Text	Language	Update	Word Count
CLAIMS A	(French)	199708W3	540
SPEC A	(French)	199708W3	2913
CLAIMS B	(English)	200117	544
CLAIMS B	(German)	200117	509
CLAIMS B	(French)	200117	540
SPEC B	(French)	200117	3240
Total Word Count (Document A) 3454			
Total Word Count (Document B) 4833			
Total Word Count (All Documents) 8287			

**Specification:** ...des scenarii de commandes, que l'homme du metier designe habituellement sous le nom de "scripts", et a les executer autant de fois qu'il y en a.

Cette technique necessite... ..mecanisme d'execution de tache a distance,

une connaissance de la syntaxe de lancement des **scripts**,

2) La deuxieme consiste a :

a) decrir chaque objet (voir plus bas la definition d...UNIX soit de maniere interactive, soit a partir d'un fichier de commande, appele fichier **script**. Le protocole rshell a distance (rshell : remote shell) est une extension du precedent dans le... ..Ce dernier dont le titre "title" conforme a la grammaire ecrite suivant la norme "BNF" (**Backus-Naur Format**) comme indique a la premiere ligne de l'annexe 1, est "Archivage de Fichiers... ..a l'annexe 2. On peut aisement verifier sur celle-ci que les interfaces de **scripts** successives utilisees dans ce fichier, par exemple "title, help, **script**, param action, param device, param indirect, param file et param verbose" sont bien conformes a...

**Specification:** ...des scenarii de commandes, que l'homme du metier designe habituellement sous le nom de "scripts", et a les executer autant de fois qu'il y en a.

Cette technique necessite... ..mecanisme d'execution de tache a distance,

une connaissance de la syntaxe de lancement des **scripts**,

2) La deuxieme consiste a :

- a) decrir chaque objet (voir plus bas la definition d...UNIX soit de maniere interactive, soit a partir d'un fichier de commande, appele fichier **script**. Le protocole rshell a distance (rshell : remote shell) est une extension du precedent dans le... ..Ce dernier dont le titre "title" conforme a la grammaire ecrite suivant la norme "BNF" (**Backus-Naur Format**) comme indique a la premiere ligne de l'annexe 1, est "Archivage de Fichiers... ..a l'annexe 2. On peut aisement verifier sur celle-ci que les interfaces de **scripts** successives utilisees dans ce fichier, par exemple "title, help, **script**, param action, param device, param indirect, param file et param verbose" sont bien conformes a...grand nombre de protocoles de communication.

Annexe 1

Voici la description sous forme BNF (norme **Backus Naur Format**) de la grammaire des interfaces de **scripts** :

Les symboles terminaux sont indiqués entre quotes simples.

Par exemple : 'xyz' denote la chaîne de... ..liste des fichiers enregistrés sur le support

- restaurer une arborescence à partir d'une cassette" **script**=tar ;

param action= "action" ;

"Choisissez votre option dans le menu :

- 'extraire' pour restaurer l'arborescence...

1/3K/22 (Item 16 from file: 348) [Links](#)

**EUROPEAN PATENTS**

(c) 2007 European Patent Office. All rights reserved.

00811016

**Information management apparatus providing efficient management of multimedia titles in a client-server network**

Informationsverwaltungseinrichtung zum effizienten Verwalten von Multimedia-Titeln in einem Klient-Server-Netzwerk

Arrangement pour la gestion efficace de titres multimedia dans un reseau du type client-serveur

**Patent Assignee:**

- **MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.;** (216883)  
1006, Oaza-Kadoma; Kadoma-shi, Osaka 571-8501; (JP)  
(Proprietor designated states: all)

**Inventor:**

- **Uenoyama, Tsutomu**  
1-9-3, Tsuruma; Machida-shi, Tokyo; (JP)
- **Ohno, Toshiichi**  
1081-16, Ooyaguchi; Urawa-shi, Saitama-ken; (JP)
- **Kato, Masao**  
1-26-2-101, Aizawa; Seya-ku, Yokohama; (JP)
- **Inagaki, Akira**  
1-21-3, Kanda Suda-cho; Chiyoda-ku, Tokyo; (JP)

**Legal Representative:**

- **Finsterwald, Martin, Dr. et al (75231)**  
Manitz, Finsterwald & Partner GbR Martin-Greif-Strasse 1; 80336 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	753821	A1	19970115	(Basic)
	EP	753821	B1	20020130	
Application	EP	96111196		19960711	
Priorities	JP	95174661		19950711	
	JP	96121255		19960516	

**Designated States:**

DE; FR; GB;

**Related Divisions: Patent (Application):**EP 1054330 (EP 2000118011)

**International Patent Class (V7):** G06F-017/30**Abstract Word Count:** 115

NOTE: 13

NOTE: Figure number on first page: 13

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	2843
SPEC A	(English)	EPAB97	19079
CLAIMS B	(English)	200205	978
CLAIMS B	(French)	200205	1220
SPEC B	(English)	200205	17828
Total Word Count (Document A) 21926			
Total Word Count (Document B) 20026			
Total Word Count (All Documents) 41952			

**Specification:** ...the title management information entries containing at least information which identifies a corresponding multimedia title;

**script** processing means for executing **script** conversion of data prior to storage in the file storage means and **script** conversion of data which are read out of the file storage means;

title processing means... ..the multimedia title, the registration processing including operations for supplying the scenario file to the **script** processing means, to be subjected to **script** conversion from a form which is compatible with the requesting client terminal, and for storing... ..for the multimedia title from the file storage means, supplying the scenario file to the **script** processing means, to be subjected to **script** conversion into a form which is compatible with the requesting client terminal, and supplying a resultant scenario file to the requesting client terminal;

the **script** processing means comprising

conversion procedure data storage means having stored therein data expressing a plurality of respectively different **script** conversion procedures,

conversion procedure selection means controllable for selecting a specified one of the **script** conversion procedures stored in the conversion procedure data storage means, and

**script** conversion means for determining an appropriate one of the **script** conversion procedures in accordance with an identity of a client terminal which is requesting execution... ..or title acquisition processing, for controlling the conversion procedure selection means to acquire the appropriate **script** conversion procedure from the conversion procedure data storage means, and for executing **script** conversion by utilizing the **script** conversion procedure.

With such an information management apparatus, the **script** conversion procedures can be procedures for conversion of the syntax of the storage location Information... ..management server to a form which is compatible with a client terminal.

In addition, the **script** conversion procedures may comprise at least one **script** conversion procedure for conversion

of syntax of the storage location information of a scenario file... to a structure which is compatible with the information management server, and at least one **script** conversion procedure for conversion of syntax of the storage location information of a scenario file... the title management information entries containing at least information which identifies a corresponding multimedia title;

**script** processing means for executing **script** conversion of data prior to storage in the file storage means and **script** conversion of data which are read out of the file storage means;

title processing means... file received from the requesting client terminal, for supplying the storage location information to the **script** processing means for conversion of the storage location information to corresponding converted storage location information... to the multimedia title from the file storage means, supplying the scenario file to the **script** processing means, to be subjected to **script** conversion for converting the storage location information of the scenario file into a form which... requesting client terminal, and supplying a resultant scenario file to the requesting client terminal;

the **script** processing means comprising

conversion procedure data storage means having stored therein data expressing a plurality of respectively different **script** conversion procedures,

conversion procedure selection means controllable for selecting a specified One of the **script** conversion procedures stored in the conversion procedure data storage means, and

**script** conversion means for determining an appropriate one of the **script** conversion procedures in accordance with an identity of a client terminal which is requesting execution... or title acquisition processing, for controlling the conversion procedure selection means to acquire the appropriate **script** conversion procedure from the conversion procedure data storage means, and for executing **script** conversion by utilizing the **script** conversion procedure.

At least a part of the title management information entries for the multimedia...executed with the fourth embodiment;

Figs. 20A and 20B are flow diagrams respectively showing a **script** conversion procedure executed for the case of a single-file scenario file and the case of... information management server, with the fourth embodiment;

Fig. 22A is a flow diagram of a **script** conversion procedure which is executed in the title acquisition processing of Fig. 21, for the... matter list, used with the fifth embodiment;

Fig. 27 is a flow diagram showing a **script** conversion procedure which is executed for preparing the subject matter list;

Figs. 28A, 28B are respective flow diagrams of **script** conversion procedures executed during title registration processing, with the fifth embodiment, for the case of...an entry in the title management information file may be for example use the BNF (**B**ackus **N**aur **F**orm) syntax, as shown in Fig. 4. As shown, this basically consists of title information... versa, will be referred to in the following description and in the appended claims as **script** conversion. The only type of **script** conversion which is specifically described with reference to the embodiments consists of syntax conversion of... it should be noted that the invention is not limited to such a type of **script** conversion.

As shown in Fig. 13, the information management server of this embodiment basically can be divided into three sections, i.e. a title processing section 2001, a **script** processing section 2002 and a data storage section 2003. The

title processing section 2001 consists... 2401, a title registration section 2101 and a title acquisition and output section 2102. The **script** processing section 2002 consists of a **script** conversion section 2201, a conversion procedure selection section 2202 and a conversion procedure data storage... hypermedia titles, as described for the preceding embodiments).

Although not shown in the drawings, the **script** conversion section 2201 includes a memory having stored therein data, e.g. in the form of a table, which relates each of the client terminals to a corresponding appropriate **script** conversion procedure. In the case ...and which each use the same type of data location information syntax, a single predetermined **script** conversion procedure (referred to in the following as the standard **script** conversion procedure) can be used. In the case of other client terminals, a specific suitable **script** conversion procedure must be selected and used.

The operation of this embodiment will be described... the scenario file of the hypermedia title which is to be registered.

Step 33: the **script** conversion section 2201 executes conversion processing of the subject matter data storage location information contained... as follows:

Step 331: based on the terminal name of the requesting client terminal, the **script** conversion section 2201 acquires connection information relating to that client terminal.

Step 332: based on the contents of the connection information, the **script** conversion section 2201 requests the conversion procedure selection section 2202 for the **script** conversion procedure which is appropriate for the client terminal concerned. The **script** conversion section 2201 includes a memory (not shown in the drawings) which holds respective sets... client terminals. Each of these sets of connection information may include information identifying an appropriate **script** conversion procedure for use in converting a client-generated scenario file to a scenario file... storage location syntax of the information management server. In response to a request from the **script** conversion section 2201 for a **script** conversion procedure, the conversion procedure selection section 2202 selects the specified one of the set of **script** conversion procedures which are held stored in the conversion procedure data storage device 2203, and passes the **script** conversion procedure data to the **script** conversion section 2201.

If the **script** conversion section 2201 does not specify a particular **script** conversion procedure to the conversion procedure selection section 2202, the conversion procedure selection section 2202 selects a standard **script** conversion procedure, which only executes path name conversion, i.e. converts each path name specified... does not consist, for example, of a (header file + scenario file) pair.

Step 333: the **script** conversion section 2201 executes conversion of the scenario sent from the client terminal, using the obtained **script** conversion procedure.

The concept of "connection information" used in step 331 is as follows. Each set of connection information held in the **script** conversion section 2201 can express the relationship between the path name syntax used within that... include (if the standard conversion procedure mentioned above cannot be used) the name of the **script** conversion procedure which is to be used for conversion of a scenario which is sent... as "server1") as "H". With the client01 terminal, it is necessary to use a specific **script** conversion procedure (for example, because that terminal utilizes a two-file scenario file structure) which... of scenario file structure from that of client01, and so requires use of a different **script** conversion procedure.

In the case of the client terminal which is designated as client03 in Fig. 23B, the connection information for that client terminal does not specify a **script** conversion procedure name. In such a case, a standard **script** conversion procedure is utilized, of the form described hereinafter ...of the scenario file.

In general, it will only be necessary to use the standard **script** conversion procedure, i.e. executing only path name conversion, with the other **script** conversion procedures being required only in the case of a non-standard scenario file structure... ..relation to hypermedia title creation or access), since it becomes less necessary to create new **script** conversion procedure files for each new client terminal which is added. Hence, the overall amount... ..required for hypermedia title registration is reduced.

Figs. 20A, 20B show respective flow diagrams of **script** conversion procedures for executing step 333 of the flow diagram of Fig. 19. The processing ... ..and scenario file, as shown in the example of Fig 16c.

The steps in the **script** conversion procedure of Fig 20A are as follows:

Step 3001: a line of the scenario... ..the conversion processing is terminated. Otherwise, processing returns to step 3001.

The steps in the **script** conversion procedure of Fig. 20B are as follows;

Step 3101: a line of the header... ..the requested hypermedia title is obtained from the file storage device 2301.

Step 43: the **script** conversion section 2201 converts the contents (i.e. storage location information contents) of the obtained ... ..file into the form which is appropriate for the requesting client terminal.

Step 44: the **script** conversion section 2201 transfers the resultant converted scenario to the requesting client terminal.

The scenario... ..registration processing, described above. In the same way as for title registration processing, if no **script** conversion procedure is specified in the connection information that has been registered for the requesting client terminal, then the conversion procedure selection section 2202 will select the standard **script** conversion procedure, for executing only path name syntax conversion, and passes this to the **script** conversion section 2201. In that case, the contents of step 43 of Fig. 21 are...is coupled to the title registration section 2101, title acquisition and output section 2102, and **script** conversion section 2201, and also to the file storage device 2301 of the data storage... ..file of the hypermedia title which is to be registered is acquired

Step 53: the **script** conversion section 2201 prepares the subject matter list, listing the subject matter data files (of... ..in the prepared subject matter list in the file storage device 2301.

Step 55: the **script** conversion section 2201 converts the acquired scenario file to a new scenario file, based on...to the example of Fig. 14B (i.e. header file and scenario file), then the **script** conversion section 2201 generates the subject matter list by using the contents of the header...shown in Fig. 29, which is coupled between the request receiving section 2401 and the **script** conversion section 2201 and title management information storage device 2303. The processing to actually generate the HTML files is performed by the **script** conversion section 2201, which is supplied with the necessary title management information by the HTML... ..2102 executes the necessary processing.

Step 5: if the request is for HTML files, the **script** conversion section 2201 and HTML Output section 2103



executes HTML conversion and file output processing Step 602: the **script** conversion section 2201 converts the title management Information to HTML files.

Fig. 32 is a... ..conversion processing step 602 of Fig. 31. This has the following contents:

Step 61: the **script** conversion section 2201 acquires the title management information from the HTML output section 2103.

Step... ..executed.

Step 64: the data of that title management information entry are processed by the **script** conversion section 2201, to generate corresponding HTML files.

Step 65: if all of the title... ..306, which executes the functions which are executed by the HTML, output section 2103 and **script** conversion section 2201 of the sixth embodiment described above to convert the title management information ...

**Specification:** ...the title management information entries containing at least information which identifies a corresponding multimedia title;

**script** processing means for executing **script** conversion of data prior to storage in the file storage means and **script** conversion of data which are read out of the file storage means;

title processing ...the multimedia title, the registration processing including operations for supplying the scenario file to the **script** processing means, to be subjected to **script** conversion from a form which is compatible with the requesting client terminal, and for storing a... ..for the multimedia title from the file storage means, supplying the scenario file to the **script** processing means, to be subjected to **script** conversion into a form which is compatible with the requesting client terminal, and supplying a resultant scenario file to the requesting client terminal;

the **script** processing means comprising

conversion procedure data storage means having stored therein data expressing a plurality of respectively different **script** conversion procedures,

conversion procedure selection means controllable for selecting a specified one of the **script** conversion procedures stored in the conversion procedure data storage means, and

**script** conversion means for determining an appropriate one of the **script** conversion procedures in accordance with an identity of a client terminal which is requesting execution... ..or title acquisition processing, for controlling the conversion procedure selection means to acquire the appropriate **script** conversion procedure from the conversion procedure data storage means, and for executing **script** conversion by utilizing the **script** conversion procedure.

With such an information management apparatus, the **script** conversion procedures can be procedures for conversion of the syntax of the storage location information... ..management server to a form which is compatible with a client terminal.

In addition, the **script** conversion procedures may comprise at least one **script** conversion procedure for conversion of syntax of the storage location information of a scenario file... ..to a structure which is compatible with the information management server, and at least one **script** conversion procedure for conversion of syntax of the storage

location information of a scenario file... ..the title management information entries containing at least information which identifies a corresponding multimedia title;

**script** processing means for executing **script** conversion of data prior to storage in the file storage means and **script** conversion of data which are read out of the file storage means;

title processing means... ..file received from the requesting client terminal, for supplying the storage location information to the **script** processing means for conversion of the storage location information to corresponding converted storage location information... ..to the multimedia title from the file storage means, supplying the scenario file to the **script** processing means, to be subjected to **script** conversion for converting the storage location information of the scenario file into a form which... ..requesting client terminal, and supplying a resultant scenario file to the requesting client terminal;

the **script** processing means comprising

conversion procedure data storage means having stored therein data expressing a plurality of respectively different **script** conversion procedures,

conversion procedure selection means controllable for selecting a specified one of the **script** conversion procedures stored in the conversion procedure data storage means, and

**script** conversion means for determining an appropriate one of the **script** conversion procedures in accordance with an identity of a client terminal which is requesting execution... ..or title acquisition processing, for controlling the conversion procedure selection means to acquire the appropriate **script** conversion procedure from the conversion procedure data storage means, and for executing **script** conversion by utilizing the **script** conversion procedure.

At least a part of the title management information entries for the multimedia... ..executed with the fourth embodiment;

Figs. 20A and 20B are flow diagrams respectively showing a **script** conversion procedure executed for the case of a single-file scenario file and the case... ..information management server, with the fourth embodiment;

Fig. 22A is a flow diagram of a **script** conversion procedure which is executed in the title acquisition processing of Fig. 21, for the... ..matter list, used with the fifth embodiment;

Fig. 27 is a flow diagram showing a **script** conversion procedure which is executed for preparing the subject matter list;

Figs. 28A, 28B are respective flow diagrams of **script** conversion procedures executed during title registration processing, with the fifth embodiment, for the case of... an entry in the title management information file may be for example use the BNF (**B**ackus **N**aur **F**orm) syntax, as shown in Fig. 4. As shown, this basically consists of title information...versa, will be referred to in the following description and in the appended claims as **script** conversion. The only type of **script** conversion which is specifically described with reference to the embodiments consists of syntax conversion of... ..it should be noted that the invention is not limited to such a type of **script** conversion.

As shown in Fig. 13, the information management server of this embodiment basically can be divided into three sections, i.e. a title processing section 2001, a **script** processing section 2002 and a data storage section 2003. The title processing section 2001 consists... ..2401, a title registration section 2101 and a title acquisition and output section 2102. The **script** processing section 2002 consists of a **script** conversion section 2201, a conversion

procedure selection section 2202 and a conversion procedure data storage...hypermedia titles, as described for the preceding embodiments).

Although not shown in the drawings, the **script** conversion section 2201 includes a memory having stored therein data, e.g. in the form of a table, which relates each of the client terminals to a corresponding appropriate **script** conversion procedure. In the case of those client terminals which generate scenario files in a...and which each use the same type of data location information syntax, a single predetermined **script** conversion procedure (referred to in the following as the standard **script** conversion procedure) can be used. In the case of other client terminals, a specific suitable **script** conversion procedure must be selected and used.

The operation of this embodiment will be described...the scenario file of the hypermedia title which is to be registered.

Step 33: the **script** conversion section 2201 executes conversion processing of the subject matter data storage location information contained...as follows:

Step 331: based on the terminal name of the requesting client terminal, the **script** conversion section 2201 acquires connection information relating to that client terminal.

Step 332: based on the contents of the connection information, the **script** conversion section 2201 requests the conversion procedure selection section 2202 for the **script** conversion procedure which is appropriate for the client terminal concerned. The **script** conversion section 2201 includes a memory (not shown in the drawings) which holds respective sets...client terminals. Each of these sets of connection information may include information identifying an appropriate **script** conversion procedure for use in converting a client-generated scenario file to a scenario file...storage location syntax of the information management server. In response to a request from the **script** conversion section 2201 for a **script** conversion procedure, the conversion procedure selection section 2202 selects the specified one of the set of **script** conversion procedures which are held stored in the conversion procedure data storage device 2203, and passes the **script** conversion procedure data to the **script** conversion section 2201.

If the **script** conversion section 2201 does not specify a particular **script** conversion procedure to the conversion procedure selection section 2202, the conversion procedure selection section 2202 selects a standard **script** conversion procedure, which only executes path name conversion, i.e. converts each path name specified...does not consist, for example, of a (header file + scenario file) pair.

Step 333: the **script** conversion section 2201 executes conversion of the scenario sent from the client terminal, using the obtained **script** conversion procedure.

The concept of "connection information" used in step 331 is as follows. Each set of connection information held in the **script** conversion section 2201 can express the relationship between the path name syntax used within that...include (if the standard conversion procedure mentioned above cannot be used) the name of the **script** conversion procedure which is to be used for conversion of a scenario which is sent...as "server1") as "H". With the client01 terminal, it is necessary to use a specific **script** conversion procedure (for example, because that terminal utilizes a two-file scenario file structure) which...of scenario file structure from that of client01, and so requires use of a different **script** conversion procedure.

In the case of the client terminal which is designated as client03 in Fig. 23B, the connection information for that client terminal does not specify a **script** conversion procedure name. In such a case, a standard **script** conversion

procedure is utilized, of the form described hereinafter referring to Fig. 20A, which only... of the scenario file.

In general, it will only be necessary to use the standard **script** conversion procedure, i.e. executing only path name conversion, with the other **script** conversion procedures being required only in the case of a non-standard scenario file structure... relation to hypermedia title creation or access), since it becomes less necessary to create new **script** conversion procedure files for each new client terminal which is added. Hence, the overall amount... required for hypermedia title registration is reduced.

Figs. 20A, 20B show respective flow diagrams of **script** conversion procedures for executing step 333 of the flow diagram of Fig. 19. The processing ...and scenario file, as shown in the example of Fig 16c.

The steps in the **script** conversion procedure of Fig. 20A are as follows:

Step 3001: a line of the scenario... the conversion processing is terminated. Otherwise, processing returns to step 3001.

The steps in the **script** conversion procedure of Fig. 20B are as follows;

Step 3101: a line of the header... the requested hypermedia title is obtained from the file storage device 2301.

Step 43: the **script** conversion section 2201 converts the contents (i.e. storage location information contents) of the obtained ... file into the form which is appropriate for the requesting client terminal.

Step 44: the **script** conversion section 2201 transfers the resultant converted scenario to the requesting client terminal.

The scenario... registration processing, described above. In the same way as for title registration processing, if no **script** conversion procedure is specified in the connection information that has been registered for the requesting client terminal, then the conversion procedure selection section 2202 will select the standard **script** conversion procedure, for executing only path name syntax conversion, and passes this to the **script** conversion section 2201. In that case, the contents of step 43 of Fig. 21 are... is coupled to the title registration section 2101, title acquisition and output section 2102, and **script** conversion section 2201, and also to the file storage device 2301 of the data storage... file of the hypermedia title which is to be registered is acquired

Step 53: the **script** conversion section 2201 prepares the subject matter list, listing the subject matter data files (of... in the prepared subject matter list in the file storage device 2301.

Step 55: the **script** conversion section 2201 converts the acquired scenario file to a new scenario file, based on... to the example of Fig. 14B (i.e. header file and scenario file), then the **script** conversion section 2201 generates the subject matter list by using the contents of the header... shown in Fig. 29, which is coupled between the request receiving section 2401 and the **script** conversion section 2201 and title management information storage device 2303. The processing to actually generate the HTML files is performed by the **script** conversion section 2201, which is supplied with the necessary title management information by the HTML... 2102 executes the necessary processing.

Step 5: if the request is for HTML files, the **script** conversion section 2201 and HTML output section 2103 executes HTML conversion and file output processing... the title management information from the title management information storage device 2303.

Step 602: the **script** conversion section 2201 converts the title management information to HTML files.

Fig. 32 is a... conversion processing step 602 of Fig. 31. This has the following contents:

Step 61: the **script** conversion section 2201 acquires the title management information from the HTML output section 2103.

Step... ..executed.

Step 64: the data of that title management information entry are processed by the **script** conversion section 2201, to generate corresponding HTML files.

Step 65: if all of the title...306, which executes the functions which are executed by the HTML output section 2103 and **script** conversion section 2201 of the sixth embodiment described above to convert the title management information...

**Claims:** ...said title management information entries containing at least information which identifies a corresponding multimedia title;

**script** processing means (2002) for executing **script** conversion of data prior to storage in said file storage means and **script** conversion of data which are read out of said file storage means;

title processing means... ..said multimedia title, said registration processing including operations for supplying said scenario file to said **script** processing means, to be subjected to **script** conversion from a form which is compatible with said requesting client terminal, and for storing... ..for said multimedia title from said file storage means, supplying said scenario file to said **script** processing means, to be subjected to **script** conversion into a form which is compatible with said requesting client terminal, and supplying a resultant scenario file to said requesting client terminal;

said **script** processing means (2002) comprising

conversion procedure data storage means (2203) having stored therein data expressing a plurality of respectively different **script** conversion procedures,

conversion procedure selection means (2202) controllable for selecting a specified one of said **script** conversion procedures stored in said conversion procedure data storage means, and

**script** conversion means (2201) for determining an appropriate one of said **script** conversion procedures in accordance with an identity of a client terminal which is requesting execution... ..or title acquisition processing, for controlling said conversion procedure selection means to acquire said appropriate **script** conversion procedure from said conversion procedure data storage means, and for executing **script** conversion by utilizing said **script** conversion procedure.

2. An information management apparatus according to claim 1, wherein said **script** conversion procedures comprise procedures for conversion of syntax of said storage location information of a... ..with a client terminal.

3. An information management apparatus according to claim 1, wherein said **script** conversion procedures comprise at least one

**script** conversion procedure for conversion of syntax of said storage location information of a scenario file... to a structure which is compatible with said information management server, and at least one **script** conversion procedure for conversion of syntax of said storage location information of a scenario file... said title management information entries containing at least information which identifies a corresponding multimedia title;

**script** processing means (2002) for executing **script** conversion of data prior to storage in said file storage means and **script** conversion of data which are read out of said file storage means;

title processing means... file received from said requesting client terminal, for supplying said storage location information to said **script** processing means for conversion of said storage location information to corresponding converted storage location information... to said multimedia title from said file storage means, supplying said scenario file to said **script** processing means, to be subjected to **script** conversion for converting said storage location information of the scenario file into a form which... requesting client terminal, and supplying a resultant scenario file to said requesting client terminal;

said **script** processing means (2002) comprising

conversion procedure data storage means (2203) having stored therein data expressing a plurality of respectively different **script** conversion procedures,

conversion procedure selection means (2201) controllable for selecting a specified one of said **script** conversion procedures stored in said conversion procedure data storage means, and

**script** conversion means (2201) for determining an appropriate one of said **script** conversion procedures in accordance with an identity of a client terminal which is requesting execution... or title acquisition processing, for controlling said conversion procedure selection means to acquire said appropriate **script** conversion procedure from said conversion procedure data storage means, and for executing **script** conversion by utilizing said **script** conversion procedure.

5. An information management apparatus according to claim 1 or claim 4 wherein...

**Claims:** ...said title management information entries containing at least information which identifies a corresponding multimedia title;

**script** processing means (2002) for executing **script** conversion of data prior to storage in said file storage means and **script** conversion of data which are read out of said file storage means;

title processing means... said multimedia title, said registration processing including operations for supplying said scenario file to said **script** processing means, to be subjected to **script** conversion from a form which is compatible with said requesting client terminal, and for storing... for said multimedia title from said file storage means, supplying said scenario file to said **script** processing means, to be subjected to **script** conversion into a form which is compatible with said requesting client terminal, and supplying a resultant scenario file to said requesting client terminal;

said **script** processing means (2002) comprising

conversion procedure data storage means (2203) having stored therein data expressing a plurality of respectively different **script** conversion procedures,

conversion procedure selection means (2202) controllable for selecting a specified one of said **script** conversion procedures stored in said conversion procedure data storage means, and

**script** conversion means (2201) for determining an appropriate one of said **script** conversion procedures in accordance with an identity of a client terminal which is requesting execution... or title acquisition processing, for controlling said conversion procedure selection means to acquire said appropriate **script** conversion procedure from said conversion procedure data storage means, and for executing **script** conversion by utilizing said **script** conversion procedure.

2. An information management apparatus according to claim 1, wherein said **script** conversion procedures comprise procedures for conversion of syntax of said storage location information of a... with a client terminal.

3. An information management apparatus according to claim 1, wherein said **script** conversion procedures comprise at least one **script** conversion procedure for conversion of syntax of said storage location information of a scenario file... to a structure which is compatible with said information management server, and at least one **script** conversion procedure for conversion of syntax of said storage location information of a scenario file... file received from said requesting client terminal, for supplying said storage location information to said **script** processing means for conversion of said storage location information to corresponding converted storage location information...

**Claims:** ...au moins des informations qui identifient un titre multimedia correspondant,

un moyen de traitement de **script** (2002) destine a executer une conversion de **script** des donnees avant une memorisation dans ledit moyen de memorisation de fichiers et une conversion de **script** des donnees qui sont lues a partir dudit moyen de memorisation de fichiers,

un moyen... comprenant des operations destinees a fournir ledit fichier de scenario audit moyen de traitement de **script** pour qu'il soit soumis a une conversion de **script** depuis une forme qui est compatible avec ledit terminal client demandeur, et destine a memoriser... moyen de memorisation de fichiers, fournir ledit fichier de scenario audit moyen de traitement de **script**, pour qu'il soit soumis a une conversion de **script** sous une forme qui est compatible avec ledit terminal client demandeur, et fournir un fichier de scenario resultant audit terminal client demandeur,

ledit moyen de traitement de **script** (2002) comprenant

un moyen de memorisation de donnees de procedure de conversion (2203) comportant, memorisees dans celui-ci, des donnees representant une pluralite de procedures de conversion de **script** respectivement differentes,

un moyen de selection de procedure de conversion (2202) pouvant etre commande en vue de selectionner une procedure specifiee parmi lesdites procedures de conversion de **script** memorisees dans ledit moyen de memorisation de donnees de procedure de conversion, et

un moyen de conversion de **script** (2201) destine a determiner une procedure appropriee parmi lesdites procedures de conversion de **script** conformement a une identite d'un terminal client qui demande l'execution d'un traitement... ledit moyen de selection de procedure de conversion pour acquerir ladite procedure de conversion de **script** appropriee aupres dudit moyen de memorisation de donnees de procedure de conversion, et afin d'executer une conversion de **script** en utilisant ladite procedure de conversion de **script**.

2. Dispositif de gestion d'informations selon la revendication 1, dans lequel lesdites procedures de conversion de

**script** comprennent des procedures destinees a une conversion de syntaxe desdites informations d'emplacement de memorisation... ..de gestion d'informations selon la revendication 1, dans lequel lesdites procedures de conversion de **script** comprennent au moins une procedure de conversion de **script** destinee a une conversion d'une syntaxe desdites informations d'emplacement de memorisation d'un ... ..avec ledit serveur de gestion d'informations, et au moins une procedure de conversion de **script** destinee a une conversion de syntaxe desdites informations d'emplacement de memorisation d'un fichier... demandeur, afin de fournir lesdites informations d'emplacement de memorisation audit moyen de traitement de **script** en vue d'une conversion desdites informations d'emplacement de memorisation en des informations d...



1/3K/23 (Item 17 from file: 348) [Links](#)

## EUROPEAN PATENTS

(c) 2007 European Patent Office. All rights reserved.

00797811

### Method of checking the execution status of a macro

Verfahren zur Kontrolle der Ausführung eines Makros

Procede de controle d'execution d'un scenario de commande

### Patent Assignee:

- **BULL S.A.**; (244471)  
68, route de Versailles; 78430 Louveciennes; (FR)  
(applicant designated states: DE;ES;FR;GB;IT;SE)

### Inventor:

- **Gobert, Daniel**  
13, rue Marie Curie; 91380 Chilly Mazarin; (FR)
- **Sitbon, Gerard**  
12 rue Gagnee; 94400 Vitry; (FR)
- **Champeval, Didier**  
4, impasse du Bois; 78370 Plaisir; (FR)

### Legal Representative:

- **Denis, Herve et al (44305)**  
BULL S.A., PC LV-58D20 68 route de Versailles; 78434 Louveciennes Cedex; (FR)

	Country	Number	Kind	Date	
Patent	EP	742514	A1	19961113	(Basic)
Application	EP	96400527		19960314	
Priorities	FR	955637		19950512	

### Designated States:

DE; ES; FR; GB; IT; SE;

**International Patent Class (V7):** G06F-009/44; ; **Abstract ...Translated)**

**Abstract ...A1**

**Abstract Word Count:** 129

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: French

Procedural: French

Application: French

Word

Count
-------

Available Text	Language	Update	
CLAIMS A	(French)	EPAB96	351
SPEC A	(French)	EPAB96	3614
Total Word Count (Document A) 3965			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 3965			

**Specification:** ...invention concerne un procede de controle d'execution d'un scenario de commande (communement appele **script** dans la terminologie de l'homme du metier), plus specifiquement adapte au protocole de gestion ... ..II est ici rappele que, dans la pratique courante, un scenario de commande est appele "**script**". Il est compose d'un ensemble d'instructions a executer, chacune d'entre elles etant lancee par une commande.

L'invention consiste a suivre l'execution du **script** en introduisant un protocole de controle au-dessus de S.N.M.P.

Ce protocole s'appuie sur une notion de ticket permettant d'identifier un **script** donne d'une facon unique.

L'invention s'applique pour tout protocole non garanti en... ..de la prise en compte d'une demande d'execution d'un scenario de commande (**script**) a travers un protocole non garanti en mode non-connecte (par exemple de type S... ..N.M.P., et les demandes d'execution etant de type snmpset pour executer des **scripts**, il est compose des phases suivantes :

A) Avant d'envoyer la demande d'execution du **script**, le gestionnaire envoie a l'agent de la plate-forme chargee de l'executer, la... ..agent retourne le ticket au gestionnaire,

B) Le gestionnaire envoie la demande d'execution du **script** a l'agent par l'intermediaire d'une commande snmpset, pour laquelle le dit ticket... ..puis l'agent controle la validite du ticket et cree une instance d'execution du **script** qu'il associe au ticket et lance l'execution du **script**.

C) le gestionnaire effectue cette operation par le moyen de commandes snmpget.

D) Des que l'execution du **script** est terminee, le gestionnaire effectue une operation d'acquittement de celle-ci, en envoyant a... ..tourne sur la plate-forme PLC1 dont le systeme... ..un agent S.N.M.P. permettant d'executer sur une plate-forme UNIX, des **scripts** SC predefinis pour le compte d'une application qui tourne sur PL, a savoir le gestionnaire GE.

L'application GE controle l'execution des **scripts** qu'elle a lance sur PLC1 en manipulant des objets et leurs attributs.

A ce... ..dans PLC1.

Ces deux classes denommees respectivement **mrs** et **mrsLog** contiennent :

- des informations sur le **script** a executer, pour la premiere d'entre elles,
- la liste des **scripts** en cours d'execution pour la seconde,

Pour faciliter la comprehension de l'invention, II... ..ecrit plus haut, l'essence de l'invention consiste a suivre l'execution de tout **script** en introduisant au-dessus de S.N.M.P., un protocole de controle qui s'appuie sur une notion de ticket, ce qui permet d'identifier le **script** SC en question. On associe donc un ticket d'identification TK a l'execution de... ..L'utilisation de TK est obligatoire.

Le procede de controle de l'execution d'un **script** SC, selon l'invention, comprend les 4 phases essentielles suivantes A a D, illustrees par... ..ci. On a egalement fait figurer, du cote de AG1, l'instance d'execution du **script** et son contenu, au cours des phases A a D.

Ces phases sont representees sur... ..3) Le gestionnaire GE envoie alors a l'agent AG1 une commande d'execution du **script** SC, par l'intermediaire d'une commande snmpset sur un attribut appele mrsexecute. Le ticket... ..droite de la figure ou l'on a fait figurer les instances d'execution du **script** SC, a savoir **mrsLog** et **mrs**, du meme cote que AG1, ainsi que le contenu de celles-ci.

La syntaxe du **script** SC a la forme indiquee en annexe 1 ou est donnee la suite des differents elements le composant et leur signification.

Phase C) :

4 a 7) Le **script** SC est lance par AG1 avec les droits de l'utilisateur, lequel est ici le les **scripts**. En fait, il se contente de demander a PLC1 de le faire, ce que ce dernier accomplit reellement.

Tous les **scripts** sont executes en simultane (background, selon la terminologie anglo-saxonne) ce qui permet a AG1... ..Dans ce cadre, il est toujours possible d'executer une action d'interruption sur un **script** en cours d'execution par une commande snmpset.

A tout instant de l'execution d'un **script**, des demandes d'informations peuvent etre faites sur celle-ci, laquelle est definie par son... ..et 7.

Chaque instance contient un ensemble de valeurs d'attributs caracterisant l'execution du **script**, notamment :

- la date de debut d'execution definie par l'attribut denomme **mrsStartTime**,
- le ticket associe au **script** defini par l'attribut **mrsTicket**,
- un attribut de controle permettant d'agir sur le deroulement de l'execution du **script**, designe par **mrsControl**,
- un status d'execution defini par l'attribut **mrsStatus**,
- un attribut de... ..indiquant la raison exacte de ce dernier, et designe par **mrsProblemType**,
- les sorties standards du **script** (**mrsStdOut**, **mrsStdErr**) et les attributs de controle qui leur correspondent, a savoir **mrsStdOutMode**, **mrsStdOutStatus**.

Si l'instance du **script** n'existe pas, cela signifie que le **script** n'a pas été lancé.

Il convient de préciser que chacun des attributs mentionnés plus... ..commence par mrs...).

Le status d'exécution indique l'état dans lequel se trouve le **script**, l'ensemble de ses états définissant le diagramme d'état montré à la figure 2... ..Lorsque AG1 donne à PLC1 l'ordre d'exécuter (ordre appelé "run" en anglais) le **script**, celui-ci passe dans l'état E1.

Si, à partir de E1, AG1 donne l... ..de SC, il passe dans l'état E4.

La confirmation de la terminaison d'un **script** SC peut être obtenue de deux manières différentes :

- soit synchrone, par lectures successives (polling, en anglais) du status du **script**
- soit asynchrone sur réception d'un événement de terminaison (voir plus loin).

Phase D) :

8) Une action d'acquiescement de l'exécution du **script** est faite pour libérer les ressources (mémoires, fichiers) associées à l'instance de ce dernier... ..but, une commande snmpset, est envoyée sur l'attribut de contrôle de l'instance de **script** (mrscontrol) avec la valeur appropriée (ack), qui signifie "il faut acquiescer". Le paquet d'informations... ..aux informations de cette instance. En effet, ce dernier libère l'instance d'exécution du **script** SC et celle-ci se trouve donc vide de toute information.

9 et 10) Dans... ..indiquant que l'instance d'exécution est vide et que par suite, l'exécution du **script** est terminée.

### 3) LA DETECTION DES ERREURS :

Lorsqu'une erreur est détectée pendant l'exécution d'un **script**, le mécanisme d'exécution de ce dernier est interrompu. L'attribut de status mrsStatus est... ..savoir:

- syntaxError, qui signifie : erreur de syntaxe,
- internalError, qui signifie : erreurs internes de l'agent,
- **scriptFailure**, qui signifie : erreurs internes du **script** SC,
- invalidUser, qui signifie : accès par un utilisateur inconnu.

La sortie standard d'erreur (mrsStdErr) contient le message d'erreur retourné par le **script** SC. Dans ce cas, l'attribut mrsProblemType contient la valeur **scriptFailure**.

### 4) TERMINAISON DU SCRIPT :

#### 1) Terminaison forcée :

Il est possible de forcer la terminaison d'un **script** SC en lançant par l'intermédiaire de GE une commande snmpset sur l'attribut mrsControl... ..arrêter". L'agent AG1 interrompt alors brutalement l'exécution de SC et le status de **script** mrsStatus est positionné à la valeur killed qui signifie : "interrompu".

## 2) Evenement de terminaison :

La terminaison d'un **script** est signalee par l'emission par AG1 d'un evenement appele snmpTrap tel que prevu... ..P.  
Deux types d'evenements sont utilises :

- l'un signalant la terminaison sans erreur du **script**. Un attribut ...off qui signifie "desactivation". Par default, sa valeur est off
- l'autre signale que le **script** a echoue (mrsFailed).

Ce processus de terminaison est tout-a-fait conforme au protocole S.N.M.P.

## 5) SUSPENSION D'EXECUTION DU SCRIPT :

GE peut suspendre l'execution d'un **script** par une commande snmpset sur l'attribut de controle mrscontrol avec la valeur (suspend) et la reactiver par la valeur (run).

## 6) RECUPERATION DES SORTIES STANDARDS :

Les sorties standards des **scripts** (appelees stdout et stderr, dans le monde UNIX) sont renvoyees vers des fichiers temporaires identifiables... ..stderr et ticket stdout).

Ces informations sont disponibles tant que l'instance d'execution du **script** n'a pas ete acquittee par GE (ack).

Ces informations de sortie sont lues par... ..les valeurs donnees en annexe 2.

## Annexe 1

Voici la description sous forme BNF (norme **Backus Naur Format**) de la grammaire des interfaces de **scripts**:

Les symboles terminaux sont indiques entre quotes simples.

Par exemple : 'xyz' denote la chaine de... ..optionnel.

Les annotations entre parentheses sont des commentaires sur la grammaire.

>>>> DEBUT DE LA BNF:

**SCRIPT** := HEADER PARAMS

COMMENT := '#.\*(back slash)n' (commentaires a la shell)

HEADER := **SCRIPT**(underscore)TITLE (**SCRIPT** (underscore)HELP **SCRIPT**(underscore)EXEC (vertical bar)  
**SCRIPT**(underscore)EXEC **SCRIPT**(underscore)HELP )

(on peut mettre le HELP avant ou apres le nom de l'executable)

PARAMS := ( PARAMS PARAM (vertical bar) PARAM )

**SCRIPT**(underscore)TITLE := 'title' '=' STRING (si on veut utiliser ce titre dans la fenetre principale pour choisir le

**script**, il faut peut-etre limiter sa taille)

**SCRIPT**(underscore)HELP := 'help' '=' STRING

**SCRIPT**(underscore)EXEC := '**script**' '=' FILENAME (cette ligne pourrait etre optionnelle; dans ce cas on utiliserait le meme nom que...

**Claims:** ...de la prise en compte d'une demande d'execution d'un scenario de commande (**script**) a travers un protocole non garanti en mode non-connecte (par exemple de type S... ..N.M.P., et les demandes d'execution etant de type snmpset pour executer des **scripts**, les dites phases A a C ont les particularites suivantes :

A) la demande de ticket... ..snmpget, et l'agent retourne le ticket au gestionnaire,

B) la demande d'execution du

**script** faite par le gestionnaire (GE) a l'agent (AG1) l'est par l'intermediaire d... ..ce qu'il comprend egalement la quatrieme phase suivante :

D) Des que l'execution du **script** est terminee, le gestionnaire effectue une operation d'acquittement de celle-ci, en envoyant a...

1/3K/24 (Item 18 from file: 348) Links

**EUROPEAN PATENTS**

(c) 2007 European Patent Office. All rights reserved.

00597961

**Operating system and data base having a rule language for condition driven computer operation**

Betriebssystem und Datenbank mit einer Regelsprache zum bedingungsgetriebenen Rechnerbetrieb

Système d'exploitation et base de données avec un langage de règles pour l'opération d'un ordinateur commandé par des conditions

**Patent Assignee:**

- **AMDAHL CORPORATION;** (628802)  
1250 East Arques Avenue; Sunnyvale, CA 94088; (US)  
(applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;IT;LI;LU;NL;SE)

**Inventor:**

- **Knudsen, Helge**  
46 Eighth Concession Road, RR#1; Freelon, Ontario L0R 1K0; (CA)
- **Chong, Daniel T.**  
2 Frankie Lane; Woodbridge, Ontario L4L 7J6; (CA)
- **Yaffe, John**  
1239 Tenth Concession Road West, RR#3; Puslinch, Ontario N0B 2J0; (CA)
- **Taucher, James**  
1504 Chalice Crescent; Mississauga, Ontario L5C 1S3; (CA)
- **Robertson, Michael**  
2641 Burnford Trail; Mississauga, Ontario L5M 4E1; (CA)
- **Plazak, Zbigniew**  
70 Glen Agar; Etobicoke, Ontario M9B 5M1; (CA)

**Legal Representative:**

- **Crawford, Andrew Birkby et al (29761)**  
A.A. THORNTON & CO. Northumberland House 303-306 High Holborn; London WC1V 7LE; (GB)

	Country	Number	Kind	Date	
Patent	EP	588447	A2	19940323	(Basic)
	EP	588447	A3	19960417	
	EP	588447	B1	19990519	
Application	EP	93203243		19900904	
Priorities	US	402862		19890901	
	US	450298		19891213	

**Designated States:**

AT; BE; CH; DE; DK; ES; FR; GB; IT; LI;



LU; NL; SE;

**Related Parent Numbers: Patent (Application):**EP 489861 (EP 909143406)

**International Patent Class (V7):** G06F-009/44; G06F-017/30; G06F-009/45; **Abstract Word Count:** 277

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9920	3523
CLAIMS B	(German)	9920	3573
CLAIMS B	(French)	9920	3885
SPEC B	(English)	9920	16161
Total Word Count (Document A) 0			
Total Word Count (Document B) 27142			
Total Word Count (All Documents) 27142			

**Specification:** ...of any table without parameters. SYNTAX

A complete, formal syntax of the rule language in **Backus-Naur** Form (BNF) follows.

BNF Notation

(a) Lower case words enclosed in angle brackets, < >..by the keyword search facility. There is space available to provide a detailed table description. **Script** formatting commands can be included in the long description.

Documentation

Subview Tables

Subviews provide windows...

**Claims:** ...evaluating evaluates said text of said rule according to the grammar which is defined in **Backus-Naur** Form according to the Syntax of Rules Table of the above detailed description.

6. The...

**Claims:** ...grammatischen Auswerten den Text der Regel in Ubereinstimmung mit der Grammatik auswertet, die in einer **Backus-Naur**-Form in Ubereinstimmung mit der Regelsyntax-Tabelle der obigen genauen Beschreibung definiert ist.

6. Computer...

**Claims:** ...ledit texte de ladite regle conformement a la grammaire qui est definie selon la forme **Backus-Naur** conformement a la table de syntaxes de regle de la description detaillee ci-avant.

6...

1/3K/25 (Item 19 from file: 348) Links

**EUROPEAN PATENTS**

(c) 2007 European Patent Office. All rights reserved.

00597960

**Programmable computer with automatic translation between source and object code with version control**

Programmierbarer Rechner mit automatischer Übersetzung zwischen Quell - und Zielcode mit Versionüberwachung

Ordinateur programmable avec traduction automatique entre code source et code-cible avec controle de version

**Patent Assignee:**

- **AMDAHL CORPORATION;** (628802)  
1250 East Arques Avenue; Sunnyvale, CA 94088; (US)  
(applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;IT;LI;LU;NL;SE)

**Inventor:**

- **Knudsen, Helge**  
46 Eighth Concession Road, RR#1; Freelon, Ontario L0R 1K0; (CA)
- **Chong, Daniel T.**  
2 Frankie Lane; Woodbridge, Ontario L4L 7J6; (CA)
- **Yaffe, John**  
1239 Tenth Concession Road West, RR#3; Puslinch, Ontario N0B 2JO; (CA)
- **Taucher, James**  
1504 Chalice Crescent; Mississauga, Ontario L5C 1S3; (CA)
- **Robertson, Michael**  
2641 Burnford Trail; Mississauga, Ontario L5M 4E1; (CA)
- **Plazak, Zbigniew**  
70 Glen Agar; Etobicoke, Ontario M9B 5M1; (CA)

**Legal Representative:**

- **Crawford, Andrew Birkby et al (29761)**  
A.A. THORNTON & CO. Northumberland House 303-306 High Holborn; London WC1V 7LE; (GB)

	Country	Number	Kind	Date	
Patent	EP	588446	A2	19940323	(Basic)
	EP	588446	A3	19951115	
	EP	588446	B1	19990707	
Application	EP	93203242		19900904	
Priorities	US	402862		19890901	
	US	450298		19891213	

**Designated States:**

AT; BE; CH; DE; DK; ES; FR; GB; IT; LI;

LU; NL; SE;

**Related Parent Numbers: Patent (Application):**EP 489861 (EP 909143406)

**International Patent Class (V7):** G06F-009/44; G06F-009/45; G06F-017/30; **Abstract Word Count:** 594

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9927	1636
CLAIMS B	(German)	9927	1403
CLAIMS B	(French)	9927	1808
SPEC B	(English)	9927	16336
Total Word Count (Document A) 0			
Total Word Count (Document B) 21183			
Total Word Count (All Documents) 21183			

**Specification:** ...of any table without parameters. SYNTAX

A complete, formal syntax of the rule language in **Backus-Naur** Form (BNF) follows.

BNF Notation

(a) Lower case words enclosed in angle brackets, <>...by the keyword search facility. There is space available to provide a detailed table description. **Script** formatting commands can be included in the long description.

Documentation

Subview Tables

Subviews provide windows...

1/3K/26 (Item 20 from file: 348) [Links](#)

## EUROPEAN PATENTS

(c) 2007 European Patent Office. All rights reserved.

00597917

### Operating system and data base having an access structure formed by a plurality of tables

Betriebssystem und Datenbank mit einer aus mehreren Tabellen geformten Zugriffsstruktur

Système d'exploitation et base de données avec une structure d'accès formée par une pluralité de tables

#### Patent Assignee:

- **AMDAHL CORPORATION**; (628802)  
1250 East Arques Avenue; Sunnyvale, CA 94088; (US)  
(applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;IT;LI;LU;NL;SE)

#### Inventor:

- **Knudsen, Helge**  
46 Eighth Concession Road, RR#1; Freerton, Ontario L0R 1K0; (CA)
- **Chong, Daniel T.**  
2 Frankie Lane; Woodbridge, Ontario L4L 7J6; (CA)
- **Yaffe, John**  
1239 Tenth Concession Road West, RR#3; Puslinch, Ontario N0B 2J0; (CA)
- **Taucher, James**  
1504 Chalice Crescent; Mississauga, Ontario L5C 1S3; (CA)
- **Robertson, Michael**  
2641 Burnford Trail,; Mississauga, Ontario L5M 4E1; (CA)
- **Plazak, Zbigniew**  
70 Glen Agar; Etobicoke, Ontario M9B 5M1; (CA)

#### Legal Representative:

- **Crawford, Andrew Birkby et al (29761)**  
A.A. THORNTON & CO. Northumberland House 303-306 High Holborn; London WC1V 7LE; (GB)

	Country	Number	Kind	Date	
Patent	EP	588445	A2	19940323	(Basic)
	EP	588445	A3	19940504	
	EP	588445	B1	19990519	
Application	EP	93203195		19900904	
Priorities	US	402862		19890901	
	US	450298		19891213	

#### Designated States:

AT; BE; CH; DE; DK; ES; FR; GB; IT; LI;  
LU; NL; SE;

**Related Parent Numbers: Patent (Application):**EP 489861 (EP 909143406)

**International Patent Class (V7):** G06F-009/44; G06F-009/45; G06F-017/30; **Abstract Word Count:** 233

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9920	1423
CLAIMS B	(German)	9920	1395
CLAIMS B	(French)	9920	1739
SPEC B	(English)	9920	16379
Total Word Count (Document A) 0			
Total Word Count (Document B) 20936			
Total Word Count (All Documents) 20936			

**Specification:** ...of any table without parameters. SYNTAX

A complete, formal syntax of the rule language in **Backus-Naur** Form (BNF) follows.

BNF Notation

(a) Lower case words enclosed in angle brackets, < >...by the keyword search facility. There is space available to provide a detailed table description. **Script** formatting commands can be included in the long description.

Documentation

Subview Tables

Subviews provide windows...

1/3K/27 (Item 21 from file: 348) Links

**EUROPEAN PATENTS**

(c) 2007 European Patent Office. All rights reserved.

00452168

**OPERATING SYSTEM AND DATA BASE**

BETRIEBSSYSTEM UND DATENBANK

SYSTEME D'EXPLOITATION ET BASE DE DONNEES

**Patent Assignee:**

- **AMDAHL CORPORATION**; (628802)  
1250 East Arques Avenue; Sunnyvale, CA 94088; (US)  
(applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;IT;LI;LU;NL;SE)

**Inventor:**

- **KNUDSEN, Helge**  
489 Brookmill Road; Oakville, Ontario L5J 5K6; (CA)
- **CHONG, Daniel, T.**  
2 Frankie Lane; Woodbridge, Ontario L4L 7J6; (CA)
- **YAFFE, John**  
1700 The collegeway, Number 902; Mississauga, Ontario L5L 4M2; (CA)
- **TAUGHER, James, E.**  
6550 Glen Erin Drive, Number 604; Mississauga, Ontario L5N 3S1; (CA)
- **ROBERTSON, Michael**  
715-6500 Montevideo Road; Mississauga, Ontario L5N 3T6; (CA)
- **PLAZAK, Zbigniew**  
70 Glen Agar; Etobicoke, Ontario M9B 5M1; (CA)

**Legal Representative:**

- **Crawford, Andrew Birkby (29761)**  
A.A. THORNTON & CO. Northumberland House 303-306 High Holborn; London WC1V 7LE; (GB)

	Country	Number	Kind	Date	
Patent	EP	489861	A1	19920617	(Basic)
	EP	489861	A1	19930804	
	EP	489861	B1	19970709	
	WO	9103791		19910321	
Application	EP	90914340		19900904	
	WO	90US5007		19900904	
Priorities	US	402862		19890901	
	US	450298		19891213	

**Designated States:**

AT; BE; CH; DE; DK; ES; FR; GB; IT; LI;  
LU; NL; SE;

**International Patent Class (V7):** G06F-009/44; G06F-017/30;

**NOTE:** No A-document published by EPO

Type	Pub. Date	Kind	Text
------	-----------	------	------

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB97	1476
CLAIMS B	(German)	EPAB97	1608
CLAIMS B	(French)	EPAB97	1744
SPEC B	(English)	EPAB97	16883
Total Word Count (Document A) 0			
Total Word Count (Document B) 21711			
Total Word Count (All Documents) 21711			

**Specification:** ...of any table without parameters. SYNTAX

A complete, formal syntax of the rule language in **Backus-Naur** Form (BNF) follows.

BNF Notation

(a) Lower case words enclosed in angle brackets, < >..by the keyword search facility. There is space available to provide a detailed table description. **Script** formatting commands can be included in the long description.

Documentation

Subview Tables

Subviews provide windows...



1/3K/28 (Item 1 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01541926

**TYPE INFERENCE SYSTEM AND METHOD**

**PROCEDE ET SYSTEME D'INFERENCES DE TYPES**

**Patent Applicant/Patent Assignee:**

- **APTANA INC**; 650 Townsend Street, Suite 271, San Francisco, CA 94103  
US; US (Residence); US (Nationality)  
(For all designated states except: US)
- **DEBREUIL Robin Sean**; 12151 Caminito Mira Del Mar, San Diego, CA 92130  
US; US (Residence); CA (Nationality)
- **COLTON Paul**; 7985 Sendero De Oro, San Diego, CA 92127  
US; US (Residence); US (Nationality)
- **LINDSEY Kevin Edward**; 2835 Unicornio Street, Apartment A, Carlsbad, CA 92009  
US; US (Residence); US (Nationality)
- **WASHBURN Donald Arthur**; 1420 Golden Gate Dr., San Diego, CA 92116  
US; US (Residence); US (Nationality)

**Patent Applicant/Inventor:**

- **DEBREUIL Robin Sean**  
12151 Caminito Mira Del Mar, San Diego, CA 92130; US; US (Residence); CA (Nationality);
- **COLTON Paul**  
7985 Sendero De Oro, San Diego, CA 92127; US; US (Residence); US (Nationality);
- **LINDSEY Kevin Edward**  
2835 Unicornio Street, Apartment A, Carlsbad, CA 92009; US; US (Residence); US (Nationality);
- **WASHBURN Donald Arthur**  
1420 Golden Gate Dr., San Diego, CA 92116; US; US (Residence); US (Nationality);

**Legal Representative:**

- **BASU Shantanu et al(agent)**  
Morrison & Foerster, LLP, 12531 High Bluff Drive, Suite 100, San Diego, CA 92130-2040; US;

	Country	Number	Kind	Date
Patent	WO	200784780	A2	20070726
Application	WO	2007US1697		20070119
Priorities	US	2006760754		20060120

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;  
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; GT; HN; HR; HU; ID;  
IL; IN; IS; JP; KE; KG; KM; KN; KP; KR;  
KZ; LA; LC; LK; LR; LS; LT; LU; LV; LY;  
MA; MD; MG; MK; MN; MW; MX; MY; MZ; NA;  
NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO;  
RS; RU; SC; SD; SE; SG; SK; SL; SM; SV;  
SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;  
UZ; VC; VN; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
LV; MC; NL; PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 9690

#### **Detailed Description:**

...typing is typically performed at runtime. Dynamic typing is often associated with languages such as **scripting** languages as well as with rapid application development environments. Static types, on the other hand, are often used with compiled languages.

[0005] Many **scripting** languages, for example JavaScript, do not require the developer to specify the type of their... return types of their functions. Also, variable types can change throughout the lifetime of a **script**'s execution. As a result, it is very difficult for a tool, such as an... environment in which the invention can be implemented. One such example is that of a **scripting** language. From time-to-time, the present invention is described herein in terms of this... in different and alternative environments, including with other languages of the dynamically-typed form.

[0029] **Scripting** languages are programming languages designed for **scripting** the operation of a computer. In other words, they can be used to create a ... might otherwise perform manually, for example at the keyboard or other user interface. A shell **script** can be included to provide commands that might be typed by the user, for example at a command prompt. A user can, for example, write a **script** that would combine a sequence of editing tasks that the user expects to perform repeatedly during programming operations. In one respect, **scripting** languages can be.

thought of as facilitating the connection of diverse pre-existing components to perform new functions.

[0030] JavaScript, is an example of a **scripting** language that is based on the concept of prototypes. It is commonly used with website development, but can also be used to enable **scripting** access to objects embedded in other applications.

JavaScript syntax is loosely based on the C... ..useful as, in the example environment, variable types can change throughout the lifetime of a **script**'s execution. Therefore, the symbol may have different type information at different positions in the... ..tokens and detect patterns in the tokens. The token patterns are typically described by a **Backus Naur Form** grammar, or BNF (sometimes referred to as the Backus Normal Form). In effect, in this implementation, a parser recognizes the pattern of tokens as described by the **Backus Naur Form** grammar. The **Backus Naur Form**, is a formal mathematical way to describe a language that can be used to... ..is often used as a notation for programming languages and command sets. Variants of the **Backus Naur Form**, such as, for example, the extended **Backus Naur Form**, can be employed to represent equivalent grammars, sometimes more concisely than the **Backus Naur Form**. Because language standards often use some variant of **Backus Naur Form** or extended **Backus Naur Form** to define the grammar of the language, the parser for the compiler can be...function's return type cannot be inferred unless it is actually referenced in code. Typically, **script** libraries do not call all of their functions, potentially making it difficult or impossible to...

1/3K/29 (Item 2 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01480452

**METHODS FOR USER INTERFACE GENERATION AND APPLICATION MODIFICATION**

**PROCEDES DE GENERATION D'INTERFACE UTILISATEUR ET DE MODIFICATION D'APPLICATION**

**Patent Applicant/Patent Assignee:**

- **CORIZON LIMITED**; 119-121 Middlesex Street, London E1 7JF  
GB; GB (Residence); GB (Nationality)  
(For all designated states except: US)
- **VALTCHEV Plamen Ivanov**; 4 Nottingham House, Portland Rise, London N4 2PU  
GB; GB (Residence); BG (Nationality)

**Patent Applicant/Inventor:**

- **VALTCHEV Plamen Ivanov**  
4 Nottingham House, Portland Rise, London N4 2PU; GB; GB (Residence); BG (Nationality);

**Legal Representative:**

- **KENRICK Mark Lloyd(agent)**  
Marks & Clerk, Sussex House, Mosley Street, Manchester, M2 3LG; GB;

	Country	Number	Kind	Date
Patent	WO	200723252	A1	20070301
Application	WO	2006GB2985		20060809
Priorities	GB	2005173570		20050825
	US	2005750133		20051214

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;  
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; HN; HR; HU; ID; IL;  
IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ;  
LA; LC; LK; LR; LS; LT; LU; LV; LY; MA;  
MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI;  
NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU;  
SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM;  
TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;  
ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;

FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
LV; MC; NL; PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 17862

### Detailed Description:

...msrdp. cab#version5, 1,2600,2180" WIDTH800 HEIGHT="200h"> </OBJECT> The client provides a rich **scripting** interface which allows various properties to be defined before communication is established between the TSAC... way in which it is run, it can be seen that in general terms, in **Backus Naur Form (BNF)**, the launcher application is called as follows: tcAppLauncher-app < app full path> I... of the present invention, the interpreter is configured to interpret commands specified in the Python **scripting** language.

Operation of the agent 19 at a low level is now described in general...operation of the user interface. Although such a technique can be effective, it requires that **scripts** are written which refer to appropriate elements of the user interface, such that function calls...the code 165 is now described with reference to Figure 27.

In a high level **scripting** language such as a Python, a function prototype 167 for the function 160 is created...

1/3K/30 (Item 3 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01440841

**METHOD AND SYSTEM FOR EXCHANGING A FINITE ACTIVITY ASSIGNED TO USER WITH ANOTHER USER**

PROCEDE ET SYSTEME D'ECHANGE A UN DEUXIEME UTILISATEUR, D'UNE ACTIVITE FINIE ATTRIBUEE A UN PREMIER UTILISATEUR

**Patent Applicant/Inventor:**

- **MENDEZ-BENEGASSI SILVA Jorge**

Vereda de Palacio 4, portal 2B, E-28109 ALCOBENDAS; ES; ES (Residence); ES (Nationality); (Designated for all)

**Legal Representative:**

- **BARLOCCI Anna(agent)**

Balmes, 30 lo 1a, E-08007 Barcelona; ES;

	Country	Number	Kind	Date
Patent	WO	2006122582	A1	20061123
Application	WO	2005EP52288		20050518

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;  
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;  
IS; JP; KE; KG; KM; KP; KR; KZ; LC; LK;  
LR; LS; LT; LU; LV; MA; MD; MG; MK; MN;  
MW; MX; MZ; NA; NG; NI; NO; NZ; OM; PG;  
PH; PL; PT; RO; RU; SC; SD; SE; SG; SK;  
SL; SM; SY; TJ; TM; TN; TR; TT; TZ; UA;  
UG; US; UZ; VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
MC; NL; PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 20121

**Detailed Description:**

...or day3) and (layl or (ay2 or tay3) and (time 1)1 according to BNF ( **Backus-Naur Form**) notation in which:  
[...]-Option Meta-symbol.

(...)-Grouping Meta-symbot.

In a similar way to... ..to the cellular phones through the appropriate network.

These communications companies usualLy recommend using a "**Script**" program, in the different programming languages, for being able to make the data transfer from... ..Gateway".

The data that the user has to provide from the computer program to that "**Script**" will be at Least the phone number(s) of the recipient(s) (in international format...

1/3K/31 (Item 4 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01295072

**ENVIRONMENTAL STATE ANALYSIS**  
**ANALYSE D'ETAT ENVIRONNEMENTAL**

**Patent Applicant/Patent Assignee:**

- **DOCOMO COMMUNICATIONS LABORATORIES EUROPE GMBH**; Landsberger Strasse 308-312, 80687 Munchen  
DE; DE(Residence); DE(Nationality)  
(For all designated states except: US)
- **TARLANO Anthony**; Thalkirchner Strasse 31, 80337 Munchen  
DE; DE(Residence); US(Nationality)  
(Designated only for: US)
- **NODA Chie**; Eduard-Schmid-Strasse 8, 81541 Munchen  
DE; DE(Residence); JP(Nationality)  
(Designated only for: US)

**Patent Applicant/Inventor:**

- **TARLANO Anthony**  
Thalkirchner Strasse 31, 80337 Munchen; DE; DE(Residence); US(Nationality); (Designated only for: US)
- **NODA Chie**  
Eduard-Schmid-Strasse 8, 81541 Munchen; DE; DE(Residence); JP(Nationality); (Designated only for: US)

**Legal Representative:**

- **HOFFMANN Eitle(agent)**  
Arabellastrasse 4, 81925 Munchen; DE;

	Country	Number	Kind	Date
Patent	WO	2005104028	A1	20051103
Application	WO	2004EP4226		20040421
Priorities	WO	2004EP4226		20040421

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;  
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;  
IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;  
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;  
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;  
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY;



TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ;  
VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; SD; SL; SZ;  
TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 12064

#### Detailed Description:

...top  
of the context space.

Logic object: A logic object is an entry, possibly a **script**, code or sequence of instructions, which involves performing logic operations at runtime of an application... The realization of receiving an utterance and decoding it as the set of BNF notation **Backus-Naur** form (BNF a notation of rewrite rules. Example S->NP VP I meaning a sentence... of the context-aware application. A set of grammar rules may be expressed in the **Backus-Naur** form as follows.

S NP

VP

S conjunction S

NP Pronoun

Name

Noun

Article Noun... ..lexicon

for the discourse pseudo natural language may be given on the basis of the **Backus-Naur** form as follows.

Conjunction

> and

T@ or

not

then  
if  
but  
else  
Adverb here  
there... ..Landberger Space  
object StraSe 312 is object (Munich,  
in Munich, Landsberger  
(NP+VP) StraSe 312)  
**Script** html()  
4. Logic N/A  
Object  
Street B  
Landsberger  
Strage 312  
Type Example DPNL Representation...

### **Claims:**

...context space.

13 Method according to claim 12, characterized in that  
logic object is a **script**, code or sequence of instructions.

14 Method according to claim 12 or 13, characterized in... ..logic  
objects.

44 Apparatus according to claim 43, characterized in that  
logic object is a **script**, code or sequence of instructions.

45 Apparatus according to claim 44, characterized in that  
logic...

**METHOD AND SYSTEM FOR CONVERSION OF AUTOMATION TEST SCRIPTS INTO ABSTRACT TEST CASE REPRESENTATION WITH PERSISTENCE**

PROCEDE ET SYSTEME POUR LA CONVERSION DE **SCRIPTS** DE TEST D'AUTOMATISATION DANS UNE REPRESENTATION ABSTRAITE DE TEST ELEMENTAIRE AVEC PERSISTENCE

METHOD AND SYSTEM FOR CONVERSION OF AUTOMATION TEST **SCRIPTS** INTO ABSTRACT TEST CASE REPRESENTATION WITH PERSISTENCE

PROCEDE ET SYSTEME POUR LA CONVERSION DE **SCRIPTS** DE TEST D'AUTOMATISATION DANS UNE REPRESENTATION ABSTRAITE DE TEST ELEMENTAIRE AVEC PERSISTENCE

**Patent Applicant/Patent Assignee:**

- **SYMPHONY SERVICES CORPORATION**; 4015 Miranda Avenue, 2nd Floor, Palo Alto, CA 94304  
US; US (Residence); US (Nationality)  
(For all designated states except: US)
- **WEST John Randall**; 826 Gail Avenue, Sunnyvale, CA 94086  
US; US (Residence); US (Nationality)  
(Designated only for: US)
- **GOPINATHAN NAIR Satheesh Kumar Madathiparambil**; 4508 Carlyle Court, Apt. 821, Santa Clara, CA 95054  
US; US (Residence); IN (Nationality)  
(Designated only for: US)
- **KIM Andrew Hyun-Chul**; 701 Baltic Circle, #737, Redwood City, CA 94065  
US; US (Residence); US (Nationality)  
(Designated only for: US)

**Patent Applicant/Inventor:**

- **WEST John Randall**  
826 Gail Avenue, Sunnyvale, CA 94086; US; US (Residence); US (Nationality); (Designated only for: US)
- **GOPINATHAN NAIR Satheesh Kumar Madathiparambil**  
4508 Carlyle Court, Apt. 821, Santa Clara, CA 95054; US; US (Residence); IN (Nationality); (Designated only for: US)
- **KIM Andrew Hyun-Chul**  
701 Baltic Circle, #737, Redwood City, CA 94065; US; US (Residence); US (Nationality); (Designated only for: US)

**Legal Representative:**

- **DAVIS Paul(agent)**  
Heller Ehrman White & McAuliffe LLP, 275 Middlefield Road, Menlo Park, CA 94025-3506; US;

	Country	Number	Kind	Date
Patent	WO	200571543	A2-A3	20050804
Application	WO	2005US641		20050106
Priorities	US	2004756894		20040113

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;  
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;  
IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;  
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;  
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;  
PT; RO; RU; SC; SD; SE; SG; SK; SL; SM;  
SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;  
UZ; VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
MC; NL; PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 4872

#### **English Abstract:**

...using semantic analysis is provided that can be used for converting a specific automation test **script** (and its underlying test case), generated from generally available or proprietary test automation tools, into... ..data can be separated from control flow information to provide automatic parameterization of the test **script**.

#### **French Abstract:**

...a une technique generale utilisant une analyse semantique pouvant etre utilisee pour la conversion de **script** de test d'automatisation specifique (et son test elementaire sous-jacent), genere a partir d...

#### **Detailed Description:**

#### **METHOD AND SYSTEM FOR CONVERSION OF AUTOMATION TEST SCRIPTS**

## INTO ABSTRACT TEST CASE REPRESENTATION WITH PERSISTENCE

### BACKGROUND OF THE INVENTION

Field of the Invention... test cases are created and managed as sequence of programming language statements known as test **scripts**. These test **scripts** are then managed through a set of utilities which treats them like files on storage... that they are tied to a target execution environment. Different test execution environments support different **scripting** languages and the same operation will be represented by different statements in these environments. If... systems and other applications that they work with. For efficient management of test cases, the **scripts** shall not be tied to any specific platform.

Almost all enterprise applications support internationalization and... sets have to be separated from the test scenarios. When test cases are managed as **scripts**, this requires one to parameterize the **scripts** manually. This again involves substantial investments of highly skilled labor.

The test cases that are... in changes to the test cases. Lack of abstractions within the test case representation using **scripts** substantially decreases the reusability of test cases and increases maintenance costs.

All enterprise applications have... same functionality may be reused in any test scenarios that uses the same functionality. Most **scripting** environments provide modularity through support of procedures. Such procedural abstractions are limited in their ability... test case

There is a need for improved systems and methods for converting automation test **scripts** into an abstract test case representation.

### SUMMARY OF THE INVENTION

Accordingly, an object of the present invention is to provide methods and systems for converting a specific automation test **script** into an abstract test case representation.

Another object of the present invention is to provide methods and systems that use semantic analysis for converting a specific automation test **script** (and its underlying test case), generated from generally available or proprietary test automation tools, into... invention is to provide methods and systems for 1 0 converting a specific automation test **script** into an abstract test case representation, where the abstract test case representation is based on ... invention is to provide methods and systems for 1 5 converting a specific automation test **script** into an abstract test case representation, with the abstract representation providing a platform independent representation... the present invention is to provide methods and systems for converting a specific automation test **script** into an abstract test case representation, where the abstract test case representation is based on ... the present invention is to provide methods and systems for converting a specific automation test **script** into an abstract test case representation, and the abstract test case representation is validated against... the present invention is to provide methods and systems for converting a specific automation test **script** into an abstract test case representation, where object information and input data are separated from control flow information to provide automatic parameterization of the test **script**.

These and other objects of the present invention are achieved in a method for transforming test cases that imports test cases written in one or more **scripting** languages. Test cases are converted to an abstract representation that includes an application state, external... transforming test cases includes a processor for importing test cases written in one or more **scripting** languages. Logic is provided for converting test cases to an abstract representation that includes application... cases. Test cases 12 are imported that are 1 5 written in one or more **scripting** languages. Test cases 12 are then converted to an abstract representation 14 which includes one... 16 is represented in the test case 12 and are arranged in a hierarchical manner.

**Scripting** languages utilized can be typed or untyped programming languages used for recording or authoring test...  
...in Figure 4, in one embodiment, a syntax analysis 34 can be implemented for incoming **scripts**. Syntax analyzer 34 can be implemented one for each **scripting** language. Syntax analyzer 34 can utilize rules of syntax analysis 36 that are specified in Extended **Backus-Naur Form** (EBNF). Syntax analysis can generate a parse tree in the form of an Abstract Syntax Tree (AST) 38. One embodiment of a method of handling **scripts** with the present invention is illustrated in the Figure 5 flowchart.

0 In one embodiment ... objects 24 associated with the test cases 12 that are missing in the incoming test **scripts**. The enrichment of test cases 12 can decouple test cases 12 and their recording or... test case scenario, the IO system dramatically reduces the manual labor involved to parameterize the **scripts**. Using the application object model, input data associated with each event 52 is separated from... representation of test cases, A syntax analyzer 1 1 8 can be included for incoming **scripts**. Syntax analyzer 1 1 8 generates a parse tree in the form of an Abstract... cases 212 are produced that are then validated. Test cases 212 are converted to test **scripts** 224. A variety of data stores 222 can be utilized including but 1 5 not... validation rules 240.

The conversion of test cases 212 from an internal representation to a **scripting** language can be through platform specific mapping 234. The platform specific mappings include language mappings... external interactions 218, captured as events on an application object, to appropriate statements in the **scripting** language 236. More than one language mapping can be provided at the same time. This allows generation of test **scripts** for multiple test execution environments. Additional environment mappings are provided to support additional platform independence... validates the test cases. Logic 322 is provided for converting the test cases to test **scripts**.

Logic 320 provides that components of a test case definition, namely application states, external interaction ...

## Claims:

...A method for transforming test cases, comprising:

importing test cases written in one or more **scripting** languages; converting test cases to an abstract representation that includes application state, external interaction sequences... system is an XML database management system.

7 The method of claim 2, wherein the **scripting** languages can be typed or untyped programming languages used for recording or authoring test cases... I 11. The method of claim 2, further comprising: implementing a syntax analyzer for incoming **scripts**.

12 The method of claim I 1, wherein the syntax analyzer is implemented one for each **scripting** language.

13 The method of claim 12, wherein the syntax analyzer utilizes rules of syntax analysis that are specified in Extended **Backus-Naur Form** (EBNF).

14 The method of claim 12, wherein the syntax analysis generates a parse... of application objects associated with the test cases that are missing in the incoming test **scripts**.

32 The method of claim 30, wherein enriching the abstraction representation of test cases includes... transforming test cases, comprising:

a processor for importing test cases written in one or more **scripting** languages; logic for converting test cases to an abstract representation that includes application state, external... test cases.

39 The system of claim 38, further comprising:

a syntax analyzer for incoming **scripts**.

40 The system of claim 38, further comprising:

logic for implementing a semantic analysis that... ..test cases.

44 The system of claim 43, further comprising:

a syntax analyzer for incoming **scripts**.

45 The system of claim 44, wherein the syntax analyzer generates a parse tree in...

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01263965

**METHOD AND SYSTEM FOR RULE-BASED GENERATION OF AUTOMATION TEST SCRIPTS FROM ABSTRACT TEST CASE REPRESENTATION**

PROCEDE ET SYSTEME POUR LA GENERATION A BASE DE REGLES DE SCRIPTS DE TEST D'AUTOMATISATION A PARTIR DE REPRESENTATION ABSTRAITE DE TEST ELEMENTAIRE

METHOD AND SYSTEM FOR RULE-BASED GENERATION OF AUTOMATION TEST SCRIPTS FROM ABSTRACT TEST CASE REPRESENTATION

PROCEDE ET SYSTEME POUR LA GENERATION A BASE DE REGLES DE SCRIPTS DE TEST D'AUTOMATISATION A PARTIR DE REPRESENTATION ABSTRAITE DE TEST ELEMENTAIRE

**Patent Applicant/Patent Assignee:**

- **SYMPHONY SERVICES CORPORATION**; 4015 Miranda Avenue, 2nd Floor, Palo Alto, CA 94304  
US; US (Residence); US (Nationality)  
(For all designated states except: US)
- **WEST John Randall**; 826 Gail Avenue, Sunnyvale, CA 94086  
US; US (Residence); US (Nationality)  
(Designated only for: US)
- **GOPINATHAN NAIR Satheesh Kumar Madathiparambil**; 4508 Carlyle Court, Apt. 821, Santa Clara, CA 95054  
US; US (Residence); IN (Nationality)  
(Designated only for: US)
- **KIM Andrew Hyun-Chul**; 701 Baltic Circle, #737, Redwood City, CA 94065  
US; US (Residence); US (Nationality)  
(Designated only for: US)

**Patent Applicant/Inventor:**

- **WEST John Randall**  
826 Gail Avenue, Sunnyvale, CA 94086; US; US (Residence); US (Nationality); (Designated only for: US)
- **GOPINATHAN NAIR Satheesh Kumar Madathiparambil**  
4508 Carlyle Court, Apt. 821, Santa Clara, CA 95054; US; US (Residence); IN (Nationality); (Designated only for: US)
- **KIM Andrew Hyun-Chul**  
701 Baltic Circle, #737, Redwood City, CA 94065; US; US (Residence); US (Nationality); (Designated only for: US)

**Legal Representative:**

- **DAVIS Paul(agent)**  
Heller Ehrman White & McAuliffe LLP, 275 Middlefield Road, Menlo Park, CA 94025-3506; US;

	Country	Number	Kind	Date
--	---------	--------	------	------



Patent	WO	200571545	A2-A3	20050804
Application	WO	2005US640		20050106
Priorities	US	2004757718		20040113

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;  
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;  
IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;  
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;  
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;  
PT; RO; RU; SC; SD; SE; SG; SK; SL; SM;  
SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;  
UZ; VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
MC; NL; PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 5941

#### **English Abstract:**

...based on platform mapping is provided to convert a test case into an automation test **script** for any specific test **script** execution environment for any specific application platform.

#### **French Abstract:**

...mappage de plate-forme est prévue pour la conversion d'un test élémentaire en un **script** de test d'automatisation pour n'importe quel environnement spécifique d'exécution de **scripts** de test pour n'importe quelle plate-forme d'application spécifique.

#### **Detailed Description:**

**METHOD AND SYSTEM FOR RULE-BASED GENERATION OF AUTOMATION TEST SCRIPTS FROM ABSTRACT TEST CASE REPRESENTATION**

## BACKGROUND OF THE INVENTION

### Field of the Invention.

This invention... test cases are created and managed as sequence of programming language statements known as **test scripts**. These test **scripts** are then managed through a set of utilities which treats them like files on storage... that they are tied to a target execution environment. Different test execution environments support different **scripting** languages and same operation will be represented by different statements in these environments. If the... systems and other applications that they work with. For efficient management of test cases, the **scripts** shall not be tied to any specific platform.

Almost all enterprise applications support internationalization and... sets have to be separated from the test scenarios. When test cases are managed as **scripts**, this requires one to parameterize the **scripts** manually. This again involves substantial investments of highly skilled labor.

The test cases that are... in changes to the test cases. Lack of abstractions within the test case representation using **scripts** substantially decreases the reusability of test cases and increases maintenance costs.

All enterprise applications have... same functionality may be reused in an test scenarios that uses the same functionality. Most **scripting** environments provide modularity through support of procedures. Such procedural abstractions are limited in their ability... data stores. Generated test cases are validated. The test cases are then converted to test **scripts**.

In another embodiment of the present invention, a computer system is provided that includes a... produce test cases. Logic validates the test cases. Logic converts the test cases to test **scripts**.

### BRIEF DESCRIPTIONS OF THE DRAWINGS

Figure 1 is a schematic diagram illustrating one embodiment of ... transforming test cases. Test cases 12 are imported that are written in one or more **scripting** languages. Test cases 12 are then converted to an abstract representation 14 which includes one... 16 is represented in the test case 12 and are arranged in a hierarchical manner.

**Scripting** languages utilized can be typed or untyped programming languages used for recording or authoring test... in Figure 4, in one embodiment, a syntax analysis 34 can be implemented for incoming **scripts**. Syntax analyzer 34 can be implemented one for each **scripting** language. Syntax analyzer 34 can utilize rules of syntax analysis 36 that are specified in Extended **Backus-Naur** Form (EBNF). Syntax analysis can generate a parse tree in the form of an Abstract Syntax Tree (AST) 38. One embodiment of a method of handling **scripts** with the present invention is illustrated in the Figure 5 flowchart.

In one embodiment, a... objects 24 associated with the test cases 12 that are missing in the incoming test **scripts**. The enrichment of test cases 12 can decouple test cases 12 and their recording or... test case scenario, the 10 system dramatically reduces the manual labor involved to parameterize the **scripts**. Using the application object model, input data associated with each event 52 is separated from... representation of test cases.

A syntax analyzer 118 can be included for incoming **scripts**. Syntax analyzer 118 generates a parse tree in the form of an Abstract... transforming test cases. Test cases 12 are imported that are written in one or more **scripting** languages. Test cases 12 are then converted to an abstract representation 14 which includes one... 16 is represented in the test case 12 and are arranged in a hierarchical manner.

**Scripting** languages utilized can be typed or untyped programming languages used for recording or authoring test...  
...in Figure 4, in one embodiment, a syntax analysis 34 can be implemented for incoming **scripts**. Syntax analyzer 34 can be implemented one for each **scripting** language. Syntax analyzer 34 can utilize rules of syntax analysis 36 that are specified in Extended **Backus-Naur** Form (EBNF). Syntax analysis can generate a parse tree in the form of an Abstract Syntax Tree (AST) 38. One embodiment of a method of handling **scripts** with the present invention is illustrated in the Figure 5 flowchart.

In one embodiment, a... objects 24 associated with the test cases 12 that are missing in the incoming test **scripts**. The enrichment of test cases 12 can decouple test cases 12 and their recording or... test case scenario, the 10 system dramatically reduces the manual labor involved to parameterize the **scripts**. Using the application object model, input data associated with each event 52 is separated from... representation of test cases.

A syntax analyzer 118 can be included for incoming **scripts**. Syntax analyzer 118 generates a parse tree in the form of an Abstract... cases 212 are produced that are then validated. Test cases 212 are converted to test **scripts** 224. A variety of data stores 222 can be utilized including but not limited to... validation rules 240.

The conversion of test cases 212 from an internal representation to a **scripting** language can be through platform specific mapping 234. The platform specific mappings include language mappings... external interactions 218, captured as events on an application object, to appropriate statements in the **scripting** language 236. More than one language mapping can be provided at the same time. This allows generation of test **scripts** for multiple test execution environments. Additional environment mappings are provided to support additional platform independence... validates the test cases. Logic 322 is provided for converting the test cases to test **scripts**.

Logic 320 provides that components of a test case definition, namely application states, external interaction ...

## Claims:

...cases from data stores;

validating generated test cases; and converting the test cases to test **scripts**.

2 The method of claim 1, wherein a data store is a relational database management... inconsistencies in statically verifiable application behaviors.

31 The method of claim 1, wherein the test **scripts** are test cases represented in a **scripting** language.

32 The method of claim 31, wherein the **scripting** languages can be typed or untyped programming languages used for recording or authoring test cases... The method of claim 1, further comprising:

converting test case from internal representation to a **scripting** language through language mapping.

45 The method of claim 44, wherein the mapping is used to map external interactions captured as events on application object to appropriate statements in the **scripting** language.

46 The method of claim 44, wherein more than one language mappings are provided... method of claim 44, wherein the generated test case are converted to more than one **scripting** language at the same time.

48 The method of claim 47, wherein generating test cases in multiple **scripting** language allows generation of test **scripts** for multiple test execution environments.

49 A computer system, comprising:

a processor; a memory coupled... logic that validates the test cases; and logic for converting the test cases to test

**scripts.**

50 The system of claim 49, wherein the logic that validates the test cases provides...

1/3K/34 (Item 7 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01255884

**TECHNIQUE FOR COLLECTING AND USING INFORMATION ABOUT THE GEOGRAPHIC POSITION OF A MOBILE OBJECT ON THE EARTH'S SURFACE**

**TECHNIQUE DE COLLECTE ET D'UTILISATION D'INFORMATIONS CONCERNANT LA POSITION GEOGRAPHIQUE D'UN OBJET MOBILE SUR LA SURFACE DE LA TERRE**

**Patent Applicant/Patent Assignee:**

- **FRANCE TELECOM**; 6, place d'Alleray, F-75015 Paris  
FR; FR(Residence); FR(Nationality)  
(For all designated states except: US)

	Country	Number	Kind	Date
Patent	WO	200564358	A1	20050714
Application	WO	2004EP14523		20041220
Priorities	US	2003751058		20031231
	EP	2004291828		20040716

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;  
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;  
IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;  
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;  
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;  
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY;  
TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ;  
VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
MC; NL; PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 9381

**Detailed Description:**

...Perl

RPC::XML:: Client module..

The parameters are defined using the following definitions, in extended **Backus-Naur** form which is described in the book "Compilers: Principles, Techniques, and Tools", by Alfred V...using MultiGIF, the maps in GIF format can be converted into. a GIF89a animation by **scripting** a software product such as Ulead, available from <http://www.ulead.com>. Also, there ...

1/3K/35 (Item 8 from file: 349) Links

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01181427

**WEB APPLICATION SERVER**

**SERVEUR D'APPLICATION INTERNET**

**Patent Applicant/Patent Assignee:**

- **SAP AKTIENGESELLSCHAFT**; Neurottstrasse 16, 69190 Walldorf  
DE; DE(Residence); DE(Nationality)  
(For all designated states except: US)
- **HILL Michael Sean**; 197 Guerrero Street, San Francisco, CA 94103-1014  
US; US(Residence); US(Nationality)  
(Designated only for: US)
- **MANN Joerg**; 2100 Oberlin Street, Palo Alto, CA 94306  
US; US(Residence); DE(Nationality)  
(Designated only for: US)

**Patent Applicant/Inventor:**

- **HILL Michael Sean**  
197 Guerrero Street, San Francisco, CA 94103-1014; US; US(Residence); US(Nationality); (Designated only for: US)
- **MANN Joerg**  
2100 Oberlin Street, Palo Alto, CA 94306; US; US(Residence); DE(Nationality); (Designated only for: US)

**Legal Representative:**

- **TROESCH Hans R(agent)**  
Fish & Richardson, P.C., 3300 Dain Rauscher Plaza, 60 South 6th Street, Minneapolis, MN 55402; US;

	Country	Number	Kind	Date
Patent	WO	2004105346	A1	20041202
Application	WO	2004US14193		20040507
Priorities	US	2003438268		20030515

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;  
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;  
IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;  
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;  
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;  
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY;

TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ;  
VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 9425

**English Abstract:**

...is identified, the identified procedure is executed (320). If a procedure is not identified, a **script** associated with the value of the action parameter is dispatched (316).

**French Abstract:**

...procedure est identifiée, cette procédure est exécutée (320). Si aucune procédure n'est identifiée, un **script** lié à la valeur du paramètre d'action est expédié (316).

**Detailed Description:**

...procedure is identified, the identified procedure is executed. If a procedure is not identified, a **script** associated with the value of the action parameter is dispatched.

Implementations may include one or... a function used in a procedural programming language. After an identified procedure is executed, a **script** may be dispatched if executing the procedure does not result in a response being committed ... value of the action parameter. The function may be programmed in Perl.

Dispatching to a **script** associated with the value of the action parameter may include dispatching to a **script** saved under a file name corresponding to the value of the action parameter. Dispatching to a **script** may include dispatching to a **script** that is associated with the value of the action parameter and that includes code that... phone, a wireless phone, a voice-enabled personal digital assistant, or a voice-enabled computer.

The **script** that is associated with the value of the action parameter may include markup language code... further configured to execute the procedure if a procedure is identified and dispatch to a **script** associated with the value of the action parameter if a procedure is not identified.



implementations... to send a response. The web application may be further configured to dispatch to the **script** after execution of the procedure if execution of the procedure does not result... a response being committed.

The web application computer may be configured to dispatch to a **script** including markup language used for communications with a wireless communication device. The markup language may... markup language code. The web application computer may be configured to dispatch to a **script** including VoiceXML or SALT code.

The computer system may further include a gateway computer. The ... but communicatively coupled to them through network 120.

The web application includes a set of **scripts** and an HTTP response algorithm for responding to HTTP requests. The **scripts** are written in a **scripting** language (e.g., JavaServer Pages™ (JSP), Active Server Page™ (ASP), or PHP: Hypertext Preprocessor... of the class implement application control logic. The application control logic coordinates the execution of **scripts** (i.e., the functions or methods may dispatch to one or more **scripts** during execution), accesses or receives selected data from local or remote computer systems or ... and sends the processed data to local or remote computer systems or storage devices. The **scripts** implement presentation (or view) logic. The presentation logic provides a user interface that enables a ... action parameter in a received HTTP request to determine which methods or functions and/or **scripts** should be executed in response to the received HTTP request. The action parameter is an additional parameter contained in the HTTP request that identifies the method, function, or **script** that should be executed by the web application routing logic.

Other parameters contained in the... to the client system 110), then the web routing logic dispatches to a **script** that corresponds to the value of the action parameter upon completion of the execution of the method or function. The application also dispatches to a **script** that corresponds to the value of the action parameter if the web application routing logic... corresponds to the value of the action parameter. In one implementation, a method, function, or **script** corresponds to the value of the action parameter if the value of the action parameter... or name used to store, invoke, or

6

otherwise reference the corresponding method, function, or **script**. For example, a method named "authen" corresponds to an action parameter set to "authen."

Fig... of the backend developer. The web application development begins by creating a set of initial **scripts** and creating a program or a class that contains web application routing logic and few... none of the functions or methods necessary for interactions with backend systems (202). The initial **scripts** present to the user of the client system 110 artificial or simulated results of interactions with backend systems. 10 Each **script** is associated with a value of an action parameter (204). In one implementation, associating a **script** with a value of the action parameter is accomplished by simply saving the **script** under a file name. The file name of the **script** (excluding extension) is the value of the action parameter that corresponds to that **script** (e.g., if the **script** is saved as "welcomejsp", the value of the corresponding action parameter is "welcome.").

In the course of application development, the user interface developer creates new **scripts** (206) and associates the new **scripts** with values of the action parameter (208). The user interface developer does not need to... backend developer to complete the backend integration and the corresponding control logic prior to creating **scripts**. After a user interface developer creates a new **script**, the web application routing logic in the class or program automatically dispatches to the **script** when an HTTP request including an action parameter with a value corresponding to the new **script** is received from the client system 110. The web application routing logic eliminates the need to change the dispatcher or to add additional code when adding a new **script**.

As the backend integration progresses, the backend developer creates new functions or methods in the... and enables the execution of the new functions or methods to replace the execution of **scripts** by simply labeling, naming, or otherwise associating the new methods or functions with the value of the action parameter that was previously associated with the **scripts** (212). The **scripts** that present artificial or simulated results of interactions with backend systems are thereby replaced by... that perform actual interactions with the backend systems and that instruct the same or other **scripts** to present the actual results of interactions with the backend systems to users. Typically, the initial **scripts** display default values of variables until replaced by a new function or method. The new... with backend systems, assigns actual values to the variables, and dispatches to the same initial **scripts** which now present the actual rather than default values to users.

For example, when developing a web-based banking application, a **script** may be manually generated to present to the user an artificial bank account balance and... information from the computer systems of the bank (i.e., backend systems), execution of the **script** that presents an artificial bank account balance is replaced by execution of a method or... "bankacct." The web application routing logic ensures that the method or function rather than the **script** executes when a

received HTTP request includes an action parameter set to "bankacct."

In this... the action parameter in the HTTP request, the web application routing logic dispatches to a **script** corresponding to

9

the value of the action parameter (316). The web application system 130 renders markup language code from the **script** and includes the markup language code in an HTTP response (318). The HTTP response is... response was committed by the method, then the web application routing logic dispatches to a **script** corresponding to the value of the action parameter (316). The web application system 130 renders markup language code from the **script** and includes the markup language code in an HTTP response (318) which is then sent... stores files necessary for execution of the web-based voice application. Such files may include **script** files, prompt files, grammar files, and text-to-speech (TTS) text files.

**Script** files are text files that store the **scripts** of the web-based voice application. A **script** file includes a series of embedded tags. The tags indicate which part of the text... part defines a grammar used to "hear" and understand the spoken response of the caller. **Script** files also generally contain 10 limited logic that controls the sequence and defines rules... to conditions, such as misunderstood speech or a lack of speech from the caller. The **script** files are processed by the voice application server 532 to render voice markup language code... Forint (JGSF) or Speech Recognition Grammar Specification 1.0 extensible markup language (XML) or augmented **Backus-Naur** forms (ABNF).

The data store 534 may be external to or located inside the voice... 540b continues parsing and processing the voice markup language code in this manner. When the **script** is completed and the necessary responses are collected from the caller, the interpreter 540b assembles... values used in the web application. The initialization method also may set a default initial **script** that is processed under certain conditions (see operations 626-644 below) to establish an initial... implementation shown in Figs. 6A and 6B, the initialization method may specify the default initial **script** by assigning a value to a SetInitialPage parameter. For example, the initialization method may assign the value of "DefaultIndex" to the SetInitialPage parameter. The default initial **script** is then "DefaultIndex.jsp". The web-based voice application developer typically is not permitted to... may edit the voice application initialization method to change the value of the default initial **script** by assigning a new value to the SetInitialPage parameter (e.g., the SetInitialPage parameter may be assigned the new value of

"InitialWelcomePage" which corresponds to an initial **script** named "InitialWelcomePageisp").

Upon completion of the voice application initialization method, the voice application server 532... no method called "index" in the class, the web application routing logic dispatches to a **script** corresponding to the value of the SetInitialPage parameter specified in the initialization method or in ... or 618 above) (632). The voice application server 532 renders markup language code from the **script** and includes the markup language code in an HTTP response (634) which is then sent... response was committed by the method, then the web application routing logic dispatches to a **script** corresponding to the value of the SetInitialPage parameter (632), renders voice markup language from the **script** (634), and sends an HTTP response to the voice gateway 540 (640).

The voice gateway... example, the voice gateway 540 may be processing voice markup language code rendered from a **script** called "getUserjsp" that requests that the user of the voice communication device 510... the action parameter in the HTTP request, the web application routing logic dispatches to a **script** corresponding to the value of the action parameter (722). The voice application server 532 renders markup  
18

language code from the **script** and includes the markup language code in an HTTP response (724). The HTTP response is... response was committed by the method, then the web application routing logic dispatches to a **script** corresponding to the value of the action parameter (722). The voice application server 532 renders markup language code from the **script** and includes the markup language code in an HTTP response (724) which is then sent... by responding to the prompts (736).

In one implementation of processes 600 and 700, the **scripts** are written using JavaServer Pages and VoiceXML, and the HTTP response algorithm is written in...

## Claims:

...identified, executing the identified procedure; and

if a procedure is not identified, dispatching to a **script** associated with the value of the action parameter.

2 The method of claim 1, wherein... that is programmed in Perl.

21. The method of claim 1, wherein dispatching to a **script** associated with the value of the action parameter comprises dispatching to a **script** saved under a file name corresponding to the value of the action parameter.

12 The... with backend systems. 10 14. The method of claim 1, wherein dispatching to a **script** comprises dispatching to a **script** that is associated with the value of the action parameter and that includes code that... digital assistant, or a voice-enabled computer. 15. The method of claim 1, wherein the **script** that is associated with the value of

the action parameter includes markup language code.

19... includes wireless markup language.

23 The method of claim 1, further comprising dispatching to the **script** after executing the procedure if executing the procedure does not result in a response being... the action parameter; execute the procedure if a procedure is identified; and dispatch to a **script** associated with the value of the action parameter if a procedure is not identified.

25... system of claim 24, wherein the web application computer is configured to dispatch to a **script** including markup language used for communication with a

wireless communication device.

34 The computer system... ..system of claim 24, wherein the web application computer is configured to dispatch to a **script** including VoiceXML or SALT code.

36 The computer system of claim 24, wherein the web application computer is farther configured to dispatch to the **script** after execution of the procedure if execution of the procedure does not result in a...

1/3K/36 (Item 9 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01168948

**METHOD OF UNIQUELY ASSOCIATING TRANSACTION DATA WITH A PARTICULAR INDIVIDUAL, AND COMPUTER-BASED MESSAGING SYSTEM FOR COMMUNICATING SUCH ASSOCIATED DATA**

PROCEDE PERMETTANT D'ASSOCIER DE MANIERE UNIQUE DES DONNEES DE TRANSACTION A UN INDIVIDU DONNE, SYSTEME DE MESSAGERIE INFORMATISEE DESTINE A COMMUNIQUER CES DONNEES ASSOCIEES

**Patent Applicant/Inventor:**

- **OON Yeong Kuang**  
29 Darryl Street, Scoresby, VIC 3179; AU; AU(Residence); AU(Nationality);

**Legal Representative:**

- **ALLENS ARTHUR ROBINSON PATENT & TRADE MARKS ATTORNEYS(agent)**  
Stock Exchange Centre, 530 Collins Street, Melbourne, VIC 3000; AU;

	Country	Number	Kind	Date
Patent	WO	200490747	A1	20041021
Application	WO	2004AU468		20040408
Priorities	AU	2003901724		20030411
	AU	2003903432		20030704
	AU	2003905320		20030930

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;  
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;  
IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;  
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;  
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;  
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY;  
TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ;  
VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;

ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; SD; SL; SZ;  
TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 7315

#### **Detailed Description:**

...for knowledge based services', WO-014652 entitled 'Automation oriented healthcare delivery system based on medical **scripting** language', and WO-03034274 entitled 'System, and method of improved recording of medical transactions', but... ..An ehrtom comprises the following components in EBNF.

This formal definition is based on Extended **Backus Naur** Formalism (EBNF is discussed in 'Programming in Modula 2', by Mildaas Wirth, Springer-ITerlag, 1982...the correct patient identifier.

The universal patient identifier system described above, used with a medical **scripting** language, therefore affords a mix-in model for medical messaging of isolated medical transactions to... ..System

ID - identifier/identity

DOCLESCRIPT - A standard for medical coding of transactional data in Extended **Backus Naur** notation.

Doclescript is a quasi-natural alphabetic language'of medicine suitable for machine processing, the...

#### **Claims:**

...method of any preceding claim, wherein the transaction data is expressed in a machine parsable **scripting** language.

10 The method of claim 9, the machine parsable **scripting** language having an organised and classified vocabulary of terms which derive from a natural human... ..in a format of one or more blocks of data expressed in a machine parsable **scripting** language together with a unique personal identification key for said particular individual, the key comprising ...

1/3K/37 (Item 10 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01144017

**ELECTRONIC MESSAGE DELIVERY USING A VIRTUAL GATEWAY APPROACH**  
**REMISE DE MESSAGES ELECTRONIQUES AU MOYEN D'UNE TECHNIQUE DE PASSERELLE**  
**VIRTUELLE**

**Patent Applicant/Patent Assignee:**

- **IRONPORT SYSTEMS INC**; 1100 Grundy Lane, Suite 100, San Bruno, CA 94066  
US; US(Residence); US(Nationality)  
(For all designated states except: US)
- **BANISTER Scott**; 1100 Grundy Lane, Suite 100, San Bruno, CA 94066  
US; US(Residence); US(Nationality)  
(Designated only for: US)
- **CLEGG Paul**; 1100 Grundy Lane, Suite 100, San Bruno, CA 94066  
US; US(Residence); US(Nationality)  
(Designated only for: US)
- **SCHLAMPP Peter**; 1100 Grundy Lane, Suite 100, San Bruno, CA 94066  
US; US(Residence); US(Nationality)  
(Designated only for: US)
- **PETERSON Patrick**; 1100 Grundy Lane, Suite 100, San Bruno, CA 94066  
US; US(Residence); US(Nationality)  
(Designated only for: US)

**Patent Applicant/Inventor:**

- **BANISTER Scott**  
1100 Grundy Lane, Suite 100, San Bruno, CA 94066; US; US(Residence); US(Nationality); (Designated only for: US)
- **CLEGG Paul**  
1100 Grundy Lane, Suite 100, San Bruno, CA 94066; US; US(Residence); US(Nationality); (Designated only for: US)
- **SCHLAMPP Peter**  
1100 Grundy Lane, Suite 100, San Bruno, CA 94066; US; US(Residence); US(Nationality); (Designated only for: US)
- **PETERSON Patrick**  
1100 Grundy Lane, Suite 100, San Bruno, CA 94066; US; US(Residence); US(Nationality); (Designated only for: US)

**Legal Representative:**

- **PALERMO Christopher(et al)(agent)**

	Country	Number	Kind	Date
Patent	WO	200466123	A2-A3	20040805
Application	WO	2004US969		20040114
Priorities	US	2003347055		20030116

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;  
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;  
IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;  
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;  
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;  
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY;  
TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ;  
VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; SD; SL; SZ;  
TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 18495

#### **Detailed Description:**

...particular campaign based upon an attribute of a message in the campaign. One or more **scripts** are written in the filtering language in advance of sending messages. The **scripts** are parsed and an object model of the **script** semantics is constructed in memory of the gateway. Filters represented in the object model are... Table 2 presents a description of one example grammar for the filter definition language, in **Backus-Naur Form**.

#### Table 2-BNF Description of Filter Grammar

Filterset Filter Filterset

Filter

Filter Filname Filterbody...a valid  
filname, seqnum, or'last'.



Once entered, the user may manually enter the filter **script**. When the user is finished, they must terminate the entry by entering a period '.' on...

**Claims:**

...wherein each of the message filters conforms to a grammar that may be described in **Backus-Naur** Form substantially equivalent to:

Filterset Filter FiltersetFilterFilter Filname FilterbodyFiltbodyFilterset Filter Filterset... ...wherein each of the message filters conforms to a grammar that may be described in **Backus-Naur** Form substantially equivalent to:Filterset Filter FiltersetFilterFilter Filname FilterbodyFiltbodyFilterset Filter Filterset... ...wherein each of the message filters conforms to a grammar that may be described in **Backus-Naur** Form substantially equivalent to:Filterset Filter FiltersetFilterFilter Filname FilterbodyFiltbodyFilterset Filter Filterset...

1/3K/38 (Item 11 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01123366

**DYNAMIC TRANSPARENT OBJECT QUERYING GENERATION AND PARSING**  
**GENERATION ET ANALYSE D'INTERROGATION DYNAMIQUE D'OBJETS TRANSPARENTS**

**Patent Applicant/Patent Assignee:**

- **THOUGHT INC**; 657 Mission Street, San Francisco, CA 94105  
US; US(Residence); US(Nationality)  
(For all designated states except: US)
- **MULLINS Ward**; 2222 Leavenworth Street, Apartment 304, San Francisco, CA 94133  
US; US(Residence); US(Nationality)  
(Designated only for: US)
- **MARTINS Alexandre**; Rua Almirante Lamego 703, Apto 102, 8815-600 Centro, Floianopolis SC  
BR; BR(Residence); BR(Nationality)  
(Designated only for: US)

**Patent Applicant/Inventor:**

- **MULLINS Ward**  
2222 Leavenworth Street, Apartment 304, San Francisco, CA 94133; US; US(Residence); US(Nationality);  
(Designated only for: US)
- **MARTINS Alexandre**  
Rua Almirante Lamego 703, Apto 102, 8815-600 Centro, Floianopolis SC; BR; BR(Residence);  
BR(Nationality); (Designated only for: US)

**Legal Representative:**

- **ORZECZOWSKI Karen Lee(et al)(agent)**  
Lev Intellectual Property Law, 4766 Michigan Boulevard, Youngstown, OH 44505-1231; US;

	Country	Number	Kind	Date
Patent	WO	200444785	A1	20040527
Application	WO	2003US35858		20031112
Priorities	US	2002425501		20021112

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; SD; SL; SZ;  
TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 26706

### Detailed Description:

...once having been taught the present invention.

- 19

Appendix I

SUN EJB QL SPECIFICATION BNF

(**Backus Naur** Form - formal notation for describing a language syntax)

EJB QL BNF notation summary.

grouping

optional... ..queries on an arbitrary JDBC connection using the EJBQLQuery and CocoPowder classes. The console start **script**, EJBQLConsole. bat, is located under the %COCO-HOME%

demos directory. The EJBQLQuery class installs...10 The BNF notation describes the syntax for the EJB-QL language. (BNF stands for **Backus Naur** Form,

which invented a formal notation for describing a language syntax.)

This language begins with... ..to see what is in the example query database.

RefertoEJBQLModel.gif tovisualizetheabstractOOmappedschemaforthese examples.

R1111the EJB3QLConsole **Script**to start the EJB -QL console application if you'd like to play with some of these queries.

Examples.

1) get all customers that live...used to issue dynamic queries on an arbitrary JDBC connection.

The command line console start **script**, EJBQLConsole. bat, is located under the %COCO -HOME% demos directory. The EJBQLQuery class installs a...

**SOFTWARE ARCHITECTURE FOR CAPABILITY AND QUALITY-OF-SERVICE NEGOTIATIONS  
AND SESSION ESTABLISHMENT FOR DISTRIBUTED MULTIMEDIA APPLICATIONS**  
SPECIFICATION D'ARCHITECTURE LOGICIELLE DESTINEE A DES NEGOCIATIONS DE CAPACITE ET  
DE QUALITE DE SERVICE ET A L'ETABLISSEMENT DE SESSION POUR APPLICATIONS MULTIMEDIA  
REPARTIES

**Patent Applicant/Patent Assignee:**

- **SONY INTERNATIONAL (EUROPE) GMBH**; Kemperplatz 1, 10785 Berlin  
DE; DE(Residence); DE(Nationality)  
(For all designated states except: US)
- **SIEMENS AG**; Wittelsbacher Platz 2, 80333 Munchen  
DE; DE(Residence); DE(Nationality)  
(For all designated states except: US)
- **MANDATO Davide**; Advanced Technology Center Stuttgart, Sony International (Europe) GMBH,  
Hedelfingerstr. 61, 70327 Stuttgart  
DE; DE(Residence); IT(Nationality)  
(Designated only for: US)
- **GUENKOVA-LUY Teodora**; Dept. of Distributed Systems, University of Ulm, Oberer Eselsberg, 89069 Ulm  
DE; DE(Residence); BG(Nationality)  
(Designated only for: US)
- **KASSLER Andreas**; Dept. of Distributed Systems, University of Ulm, Oberer Eselsberg, 89069 Ulm  
DE; DE(Residence); DE(Nationality)  
(Designated only for: US)
- **NOSSE Markus**; Dept. of Distributed Systems, University of Ulm, Oberer Eselsberg, 89069 Ulm  
DE; DE(Residence); DE(Nationality)  
(Designated only for: US)

**Patent Applicant/Inventor:**

- **MANDATO Davide**  
Advanced Technology Center Stuttgart, Sony International (Europe) GMBH, Hedelfingerstr. 61, 70327  
Stuttgart; DE; DE(Residence); IT(Nationality); (Designated only for: US)
- **GUENKOVA-LUY Teodora**  
Dept. of Distributed Systems, University of Ulm, Oberer Eselsberg, 89069 Ulm; DE; DE(Residence);  
BG(Nationality); (Designated only for: US)
- **KASSLER Andreas**  
Dept. of Distributed Systems, University of Ulm, Oberer Eselsberg, 89069 Ulm; DE; DE(Residence);  
DE(Nationality); (Designated only for: US)
- **NOSSE Markus**  
Dept. of Distributed Systems, University of Ulm, Oberer Eselsberg, 89069 Ulm; DE; DE(Residence);

DE(Nationality); (Designated only for: US)

**Legal Representative:**

- **RUPP Christian(agent)**

Mitscherlich & Partner, Postfach 33 06 09, 80066 Munchen; DE;

	Country	Number	Kind	Date
Patent	WO	200439031	A2-A3	20040506
Application	WO	2003EP11439		20031015
Priorities	EP	200223836		20021023
	EP	200227408		20021209

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English

Filing Language: English

Fulltext word count: 28606

**Detailed Description:**

...examples for the syntax of

the E2ENP Universal Resource Identifier (URI), thereby

using the Augmented **Backus-Naur** Form (ABNF),

Fig. 7 outlines a first message sequence chart (MSC) showing the pre-negotiation...and IF5 in both directions.

- The IDs are needed to uniquely identify the session description objects. There are two types of identifiers, which are also objects.

E2ENP internal object IDs... a formal description of such a Universal Resource Identifier (URI) syntax by using the Augmented **Backus**

**Naur** Form (ABNF). Thereby said specification is similar to

the SIP URI syntax specification described in...and different types of middleware 130.

Table A: Used Abbreviations

Abbr. Brief Explanation

ABNF jAugmented **Backus-Naur** Form

API jApplication Programming Interface

ASCII lAmerican Standard Code for Information Interchange

E2ENP lEnd-to... package

510 ManagerProvider interface

512 ManagerListener interface

514 class ConfigurationRequest

516 class ParserFactoryConfiguration

600 Augmented **Backus-Naur** Form (ABNF) of the E2ENP address

as a Universal Resource Identifier (URI)  
700 first message...

**Claims:**

...precondition to sessions initiated

by the session-layer protocol and described by a session **description** protocol implementation, wherein network  
resource reservation mechanisms are deployed before the session is started, wherein...

1/3K/40 (Item 13 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01099960

**A DEVELOPMENT SYSTEM FOR A DIALOG SYSTEM**

SYSTEME DE DEVELOPPEMENT DE SYSTEME DE DIALOGUE

**Patent Applicant/Patent Assignee:**

- **TELSTRA NEW WAVE PTY LTD**; 242 Exhibition Street, Melbourne, Victoria 3000  
AU; AU(Residence); AU(Nationality)  
(For all designated states except: US)
- **STARKIE Bradford Craig**; 52 Boisdale St, Surrey Hills, Victoria 3127  
AU; AU(Residence); AU(Nationality)  
(Designated only for: US)

**Patent Applicant/Inventor:**

- **STARKIE Bradford Craig**  
52 Boisdale St, Surrey Hills, Victoria 3127; AU; AU(Residence); AU(Nationality); (Designated only for: US)

**Legal Representative:**

- **DAVIES COLLISON CAVE(agent)**  
1 Little Collins Street, Melbourne, Victoria 3000; AU;

	Country	Number	Kind	Date
Patent	WO	200423332	A1	20040318
Application	WO	2003AU1155		20030905
Priorities	AU	2002951244		20020906

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 10352

### Detailed Description:

...step 406. The scenario generator 206 includes a simulator 208 which can interpret complex VXML **scripts**. The simulator 208 can operate in two modes. In a first mode, the simulator 208... ..to logic stored elsewhere. For example, the VXML 226 can call common gateway interface (CGI) **scripts**, and it can access a database. Although the - 10 VXML 226 can be extremely complex... ..and grammars used. The total number of prompts and grammar fragments contained within a VXML **script** can be extracted from the **script** without requiring any understanding of how the VXML calls these fragments.

One method of overcoming...the accompanying drawings.

- 22

### APPENDIX A. Example Interaction Notation

The following notation is described using **Backus Naur Form**

ExampleInteraction : MenuDrivenCalls MixedhiitiativeCalls

Menu]DrivenCalls.

MenuDrivenMarker ListOfCalls

MenuDrivenMarker;

MenuDriverMarker '@startmenudriven:: I';

MixedhiitiativeCalls

EndMenuDrivenMarker ListOfCalls...



1/3K/41 (Item 14 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01082096

**MULTI-PHONEME STREAMER AND KNOWLEDGE REPRESENTATION SPEECH RECOGNITION SYSTEM AND METHOD**

SYSTEME ET PROCEDE DE RECONNAISSANCE VOCALE REPOSANT SUR L'EMISSION EN CONTINU DE PHONEMES MULTIPLES ET LA REPRESENTATION DES CONNAISSANCES

**Patent Applicant/Inventor:**

- **ROY Philippe**

7770 Oak Grove Cir., Lake-Worth, FL 33467; US; US(Residence); CA(Nationality);

**Legal Representative:**

- **BERESKIN & PARR(agent)**

40 King Street West, 40th Floor, Toronto, Ontario M5H 3Y2; CA;

	Country	Number	Kind	Date
Patent	WO	200403887	A2	20040108
Application	WO	2003CA994		20030630
Priorities	US	2002392564		20020628

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 53119

**Detailed Description:**

...words or utterances. Techniques for such matching include the Hidden Markov Model (HMM) and the Backus-Naur (BNF) techniques, both well known in the art. Typically, current techniques analyze audio streams

and... ..disclosure.

Conceptual analysis is performed through predicate calculus operations that are driven by Predicate Builder **scripts** associated with each word and part of speech. Conceptual analysis initially involves searching for an... ..to one embodiment of the invention.

Fig. 7 is a flow diagram of the Flatten **Scripts** sub-process according to one embodiment of the invention.

Fig. 8 is a schematic of... ..embodiment of the invention.

y  
Fi . 9A is a schematic of an exemplary syntactic transform **script** according to one  
9  
embodiment of the invention.

Fig. 9B is a schematic of an exemplary number transform **script** according to one embodiment of the invention.

Fig. 9C is a schematic of an exemplary time transform **script** according to one embodiment of the invention.

Fig. 9D is a schematic of an exemplary custom transform **script** according to one embodiment of the invention.

Fig. 10 is a flow diagram of the Process Script File sub-process and the Syntactic  
Analysis process according to one... ..embodiment of the invention.

1 5 Fig. 15 is a flow diagram of the Process **Script** Line sub-process and the Load **Script** File sub-process according to one embodiment of the invention.

Fig. 16 is a schematic of transform **script** file structures and also is a flow diagram of the Get Condition Entry sub-process and the Finalize **Script** Line sub-process according to one embodiment of the invention.

Fig. 17 is a flow... ..process (an example of which is explained in Fig.

10) is performed by applying transform **scripts** (e.g., like the exemplary ones shown in Fig.

9) from Box 120 to the... ..with syntactic organizations in Box 124 while respecting word boundaries and rules described in transform **scripts**. The transform **scripts** may be adapted and customized for individual operations, and 1 5 customization may improve system... Multiple sequences may be developed using permutation analysis 218, by applying syntactic rules, or transform **scripts** 222, that may be adapted for any particular application.

The syntactically correct syntactic organizations that... ..technique, as originally formulated by Schank, is applied through the use of a conceptual dependency **scripting** language 224 and Predicate Builder **scripts** 226. Once the conceptual representation of the inquiry is determined, a conceptual representation of a... ..and Conceptual Analysis. These processes, along with the corresponding IO structures and examples of different **scripts**, are explained in detail in the following sections.

## PHONEME RECOGNITION '

Turning now to Fig. 3... ..string, a mCDScript value as a one dimensional array of string that holds Predicate

Builder **scripts** later required for conceptual analysis, a mCluster value as a number that holds the cluster...to current part of Speech from TWc are copied to mCDScript array in RC. Auto-**script** Predicate Builder **scripts** associated with the current part of speech, as explained in Fig. 17, would also get... mLastPromote in PtP is set to Index in Stream IS. In Step 674, the Flatten **Scripts** sub-process at Step 702 in Fig. 7 is called. In Step 676, the next... which step called the sub-process.

Fig. 7 depicts a flow scheme for the Flatten **Scripts** sub-process in the preferred embodiment of the invention. Every TReco structure may be associated with multiple Predicate Builder **scripts** through the one-dimensional array of string mCDScript. This is not practical for the algorithm... dimensional array of string.

Consequently, there shall be no need for permutations of Predicate Builder **scripts** stored in mCDScript in the Conceptual Analysis process later described.

In Step 702, the Flatten **Script** sub-process is called from Step 674 in Fig. 6. Step 704 inspects mCDScript in RC to determine if there is more than one string contained in it.

Step 706 sets the current **script** Sc to the last string in mCDScript of RC. Step 708 creates a new TReco... example, parts of speech POSi,, -N associated with a word Wi, and all Predicate Builder **scripts** CDi, I-N associated with a word Wi and part of speech POSij.

The preferred... 1.

The invention also allows for dynamic definition of new parts of speech. Through transform **scripts**, as explained in Fig. 15 and 16, and shown in Fig. 9, a new part of speech can be included in any transform **script**. As shown in Fig. 91), new parts of speech like 1 5 AIRLINE, FLIGHT, FLIGHTS, GATE or CITY are defined by introducing them in any relevant transform **script** line after the 4ffectation identifier ('->'). Each logical value within mPartOfSpeech array identifies if any given... POS PROPER NOUN) and every other entry would typically be false.

In CDi, Predicate Builder **scripts** are stored for each associated part of speech POSjj.

Mi is a two-dimensional array since any given word may hold multiple Predicate Builder **scripts** for any associated part of speech POSjj (this relates to the reality that any given... the TWord Wi holding the spelling 'James', mCDScript[3] [11 will hold a Predicate Builder **script** that identifies a person named 'James' and every other entry of mCDScript would typically not... of probable words has been determined from the Phoneme Stream Analysis, syntactic rules, or transform **scripts**, are applied to form a list of syntactically correct sequences of words from those words.

## SYNTACTIC ANALYSIS

Fig. 9 describes the content of transform **scripts** used in the preferred embodiment of the invention. By way of example and not intending to limit the invention in any manner, Fig. 9A, 9B and 9C describe some transform **scripts** that can handle the English language, and Fig. 9D describes a transform **script** that can be used in the English language in order to build an airline response... context of an airline response system. Also, the syntax used in order to interpret transform **scripts** is only provided as an example, and there is no intention to limit the invention... A programming engineer is free to modify, produce or not use new or existing transform **scripts** based on the needs of his implementation. His decision should be driven by the requirements related to system's implementation. Transform **scripts** should be produced by programming engineers that are knowledgeable in the field of linguistics.

The purpose of transform **scripts** is to describe the rules related to permutation analysis of streams so that sequences of... has an associated mStartStream, which may or may not be different from other TReco. Transform **scripts** responsibilities are to produce sequences of streams that respect rules stated in it and also... stream (mStartStream) and where did it end in the phoneme stream (niEndStream). Transform **scripts** typically reside on file on disk and are loaded in memory in such a way that transform **script** interpretation is optimized for speed. That means setting some structures in memory at load time... be consistent between each TReco in a sequence produced. As an example, for the transform **script** line ["splitting"] ["it"], which states that a TReco with inSpelling "splitting" followed by a TReco... and not intending to limit the invention in any manner, the following syntax of transform **scripts** was selected in the preferred embodiment of the system in order to extract from each... isolate multiple streams from one another and produce sequences of streams based on the transform **script** line, the Stream delimiters are used. Between the Opening stream delimiter ('[') and the Closing stream... intending to limit the invention in any manner, possible criteria to match in provided transform **scripts** example are parts of speech and spellings.

2. Spelling identifier (sequence of characters between two... name and then the Closing tag identifier), a Tag delimiter is found on the transform **script** line.

7. Line name separator ('.' character). After the optional line name in a transform **script** line, the Line name separator is used to separate the line name from the permutation described in the transform **script** line.

1 5 8. Affection identifier ('->' characters). Automatic transforms (transforms that do not require the approval of a call-back sub-process) are specified on a transform **script** line by following the description of stream sequence criteria to match with an Affection identifier... respected, but also (and) spelling criteria.

1 0. Comment identifier (W). Anywhere in a transform **script** line, comments may be added if preceded by the Comment identifier.

Syntax used in transform **scripts**, and provided as an example, is as follow.

1. Stream criteria to match needs to... a TReco where the spelling is "running" since "running" starts with the characters "ruW".

. Transform **script** lines that do not include the Affection identifier are to be processed by a call... stream sequence of an ORDINAL-NUMBER that follows another ORDINAL-NUMBER. Consequently, for some transform **scripts**, when sequences are matched, instead of transforming automatically the sequence in a new part of... and Closing tag identifiers. Tags are specified in order to facilitate content extraction within transform **script** call-back sub-processes (as can be seen in Fig. 1 1 and 12).

6. Following the optional Affection identifier in transform **scripts** is a part of speech that a 1 5 new TReco structure enclosing all TReco used to form it (spelling that is cumulative of all TReco used from the transform **script**) with a mPartOfSpeech that corresponds to the part of speech after the Affection identifier. As... speech GATE is not pre-programmed into the system, but is allowed in a transform **script** line, and will consequently be added to the list of possible parts of speech and... has a mPartOfSpeech GATE. The

programming engineer is free to modify, add or delete transform **scripts** at his convenience depending on the needs that are targeted to be covered. In this... and may well not be adequate for other needs, meaning that deletion of the

transform **script** line would be relevant.

Fig. 9A describes an example of transform **script** content used to perform syntactic transforms for the English language in the preferred embodiment of the invention.

I 0 Fig. 9B describes an example of transform **script** content used to perform numeric transforms for the English language in the preferred embodiment of... no Affectation identifier, a call-back sub-process needs to be specified for the transform **script** to be handled properly. The Number Producer Permutation Callback (described in Fig. 14) is used for that purpose. The transform **script** in Fig. 9B and the 1 5 Number Producer Permutation Callback handle sequences like "One... the corresponding number associated to the sequenced stream.

Fig. 9C describes an example of transform **script** content used to perform time transforms for the English language in the preferred embodiment of... no Affectation identifier, a call-back sub-process needs to be specified for the transform **script** to be handled properly. The Time Producer Permutation Callback (described in Fig. 13) is used, for that purpose. The transform **script** in Fig. 9C and the Time Producer Permutation Callback handle sequences like "four thirty pm... the corresponding time associated to the sequenced stream.

Fig. 9D describes an example of transform **script** content used to build a custom airline response system for the English language in the preferred embodiment of the invention. That transform **script** interpreted after the transform **scripts** in Fig. 9B and Fig.

9C but before the transform **script** in Fig. 9A (as seen in the Syntactic Analysis process in Fig. I 0) generates, as... hundred arrived yef'.

1 0 Fig. I 0 depicts a flow scheme for the Process **Script** Files sub-processes as well as the Syntactic Analysis process in the preferred embodiment of... Words List WL variable with TReco structures based on the rules stated in all transform **scripts** as shown in Fig. 9. The entrant to the Syntactic Analysis process is the TRecoLst... output of the Syntactic Analysis process is also the transformed TRecoLst variable WL. The Process **Script** Files sub-process

at Step 1010 is used in the Syntactic Analysis process in order to process each loaded **script** file sequentially.

In Box 1002, the Process **Script** Files sub-process is called from Step 1054 in Fig.

10.

**Scripts** List SL has N TScript SI-N. In Step 1004, the current TScript SC in... the current line Lc needs to be 1 0 reprocessed. That relates to recursive transform **script** lines. That is, a transform **script** line may perform an automatic transform **script** transformation of a part of speech POSj into a part of speech POSj. Should there be at least one transformation performed from such a transform **script** line, it is important to reprocess the transform **script** line since there is a new stream with the part of speech POSi that was... reprocessing is performed until no more streams are created from the interpretation of the transform **script** line.

In Step 1014, IS is inspected to determine if it is prior to the... process is started with the entrant TRecoLst a new one-dimensional array of TScript variable **Scripts** List SL.

In Step 1038, SF is set to the File variable Number Transform **Script** from Fig... is set to Step 1402 in Fig. 14. In

Step 1040, the sub-process Load **Script** File is called.

Upon loading of the File, SL will have a new TScript element... of Fig. 15.

In Step 1042, SF is set to the File variable Time Transform **Script** from Fig. 9C, CB is set to Step 1302 in Fig. 13. In Step 1044, the sub-process Load **Script** File is called. Upon loading of the File, SL will have a new... of Fig. 15.

In Step 1046, SF is set to the File variable Custom Transform **Script** from Fig. 91), CB is cleared. In Step 1048, the sub-process Load **Script** File is called. Upon loading of the File, SL will have a new TScript element... of Fig. 15.

In Step 1050, SF is set to the File variable Syntactic Transform **Script** from Fig. 9A, CB is cleared. In Step 1052, the sub-process Load **Script** File is called. Upon loading of the File, SL will have a new TScript element... as seen in Step 1588 of Fig. 15.

In Step 1054, the sub-process Process **Script** Files is called with the variables SL and VsIDS.

Step 1056 terminates the Syntactic Analysis... to populate the list WL with TReco structures that obey the rules in the transform **scripts** for Conceptual Analysis to process them.

Fig. 11 depicts a flow scheme for a... WRD to have been set by the caller, as well as TSctLine Line LI, TScript **Script** SPT, the one-dimensional array of TReco Partial PT and the TRecoLst Words List WL... one-dimensional array is not cleared. That is, mSpellTest is indirectly populated by a transform **script** line that may or may not have stated some spelling criteria for the stream. A clear mSpellTest would be one that resulted from a transform **script** line where no spelling criteria would have been specified for the stream. Step 1222 sets... MCallback in SPT is clear - L e. is there a call-back associated with the **script**. Step 1258 calls the sub-process Permutation Callback with the variables LI, mCallback in SPT... is invoked as a result of a successful identification of sequences of TReco from the **script** in Fig. 9C. The programming engineer can utilize any routine now known or later developed... is invoked as a result of a successful identification of sequences of TReco from the **script** in Fig. 913. The programming engineer can utilize any routine now known or later developed... Step 1372 in Fig. 13 at Step 1456.

Fig. 15 depicts a flow scheme for **script** file reading sub-processes in the preferred I 5 embodiment of the invention.

In Box 1502, a Process **Script** Line sub-process is called from Step 1582 in Fig. 15.

The Process **Script** Line sub-process processes the string contained in **Script** Line SL, which is typically a single line from a transform **script** file, and populates the TSctLine structure Line LN accordingly with processed characters from SL so... case there would not be any automatic transformation associated with SL. An automatic transformation transform **script** line is a transform **script** line that specifies a part of speech after the optional,4ffectation identifier characters as explained... is not before the end of SL anymore. Step 1546 calls the sub-process Finalize **Script** Line at Step 1152 in Fig. 11. At Step 1548, the process resumes at Step 1582 in Fig. 15.

In Step 1550, a Load **Script** File sub-process is called from Step 1040, 1044, 1048 or 1052 in Fig. 10. The Load **Script** File sub-process describes the loading in memory and filling of a single TScript structure provided a given file **Script** File SF which contains a 15 transform **script** that respects syntax as stated in Fig. 9. A transform **script** may be loaded through other means including, but not limited to, accessing memory range that contains the transform **script** or obtaining the transform **script** accessible from system resources.

In Step 1552, the file SF is opened. Step 1554 clears ... Step 1560 reads one line from SF and sets the line content to the string **Script** Line SL. Step 1562 clears Line Name LN. Step 1564 determines if there is a... the character before the Affectation identifier in SL.

In Step 1582, the sub-process Process **Script** Line at Step 1502 in Fig. 15 is called.

Step 1586 adds LI set by... no more character to process from SF. Step 1588 closes SF, and adds SC to **Scripts** List and Step 1590 resumes the process following Step 1040, 1044, 1048 or 1052 in Fig. 10, depending on which step called the Load **Script** File sub-process at Step 1550 in Fig. 15.

Fig. 16 depicts a flow scheme for **script** file structures and sub-processes in the preferred embodiment of the invention. Fig. 15 and Fig. 16 describe the sub-processes related to transform **script** loading into memory. Transform **script** examples can be seen in Fig 9A, 913, 9C and 9D.

In Box 1602, a... programming engineer may not have an associated call-back sub-process associated with the transform **script**. Since tags are typically used from call-back subprocesses in order to detect a stream within a sequence of streams, the fact that no call-back exists for a transform **script** makes mTagName almost irrelevant. The purpose of a TCondition is to hold all information related... array. The purpose of a TPermute is to hold all information related to a transform **script** line other than the line name and automatic part of speech transformation. Each mpermutation entry... ith entry of mCondition needs to be met. mWorkPenn and mCondRes are later used in **script** execution.

In Box 1606, a predetermined and programmed into the... 8) if cleared, followed by an optional niLineName as a string that refers to a **script** line name if it was found in the read **script** (as an example, "TRANSFORMATION" is the line name of the first line in the transform-n **script** in 9C), a mRecursive logical value, and, a mPen-nutationLst that holds a TPerinute structure... value is set to true to signal that a transformation that occurs on that transform **script** line must be followed by a re-interpretation of the same transform **script** line. For example, a Stream sequence may be described in a transform **script** line where any part of speech followed by a NOUN-PHRASE part of speech generates... part of speech. A successful I 0 generation of a NOUN-PHRASE through that transform **script** line would mean that a new NOUN-PHRASE stream has been created. But that newly created NOUN-PHRASE stream algorithm would proceed immediately to the next transform **script** line. Consequently, the transform **script** line is re-evaluated after a successful transform in order not to miss any 1... see if they can be included in a sequence of streams related to a transform

**script** line, regardless if they were created from the same transform **script** line. The TPermute structure holds all information extracted from a single transform **script** line.

Should mPOSTransform not be UNKNOWN part of speech, the transform **script** line is an automatic transform **script** line since it does not require a call to the call-back sub-process for the transformation to occur. Such transform **script** lines are the ones that include an Affectation identifier followed by a part of speech. If mPOSTransform is UNKNOWN part of speech, a call-back associated to the entire transform **script** should be invoked - where the decision can be made to allow the sequence of streams... a TProc that is the address of a sub-process to call upon running the **script**. The purpose of a TScript structure is to hold all information related to a transform **script**. That information is a simple ordered array of TScptLine (each TScptLine holds all information related to a single transform **script** line) and an optional mCallback value.

In Box 1610, the sub-process Get Condition Entry... at a time while reacting adequately on determined characters related to the syntax of transform **scripts** to build successfully the Wondition structure in LN.

In Step 1612, a newly created New... depending on which step called the sub-process.

In Box 1652, the sub-process Finalize **Script** Line is called from Step 1546 in Fig. 15.

In Step 1654, the current mPennutation... of example and not intending to limit the invention in any manner, a Predicate Builder **scripting** language is used. The Predicate Builder **scripting** language is an interpreted language that performs simple text replacement operations in order to generate... PRIMITIVE (ROLE1:FILLER) ... (ROLEN:FILLERN). Every token that needs special processing in the Predicate Builder **scripting** language of the preferred embodiment of the invention is located between some designated characters, here... of example and not intending to limit the invention in any manner, a Predicate Builder **script** example follows.

```
$+DEFINE(tmp.qry)+$ {?ENTITY}  
$+IF($+WORKINGCDPREDICATE+$;NULL)+$  
$+DEFINE(tmp.qry)+$ {?TIME}  
$+ENDIF+$  
$+DEFINE... point token.
```

\$+IF(\$+IF-1+\$;\$+IF-2+\$)+\$ is a flow-control token that lets the **script** interpret content up to the corresponding \$+ELSE+\$ or \$+ENDIF+\$ only if \$+IF-I+\$ is equal to \$+IF-2+\$.

Should \$+IF.1+\$ not be equal to \$+IF-2+\$, **scripting** would start being interpreted after the corresponding \$+ELSE+\$ or \$+ENDIF+\$ depending on the **script** content. The token \$+WORKINGCDPREDICATE+\$ is an entry-point token. Just by looking at it, one... clears 1 5 the variables tmp.qry and tmp.rs.

Interpretation of this Predicate Builder **script** would go as follow (assume that entypoint token \$+WORKINGCDPREDICATE+\$ returns NULL and that entry-point... CLASS:\$+tmp.rs-1+\$)  
(QUERY:\$+tmp.qry+\$)  
(OBJECT:\$+SUBJECT+\$)".

. Append to result buffer of Predicate **script** interpretation the string "MOOD  
(CLASUNTEROGATIVE) (QUERY:?TIME) (OBJECT:PP (OBJECT: CAR)  
(COLOR: RED))". All replacements... interpretation.

6. Clear \$+tmp.qry+\$.

7. Clear \$+tmp.rs+\$.

The final result from Predicate Builder **script** interpretation of the **script** is the string "MOOD  
(CLASS:INTEROGATIVE) (QUERY:?TIME) (OBJECT:PP (OBJECT.

CAR) (COLOR: RED))" which... Definitions, flow-controls, variables and procedurals tokens can be used without constraint in Predicate Builder **scripts**. Entry-Point tokens need to respect requirements related to parameters to passed to it as... implementation is well 1 5 known to those skilled in the art. The Predicate Builder **scripting**



language is another interpreted language that has the specificity of generating Predicate structures (in this... ..a string that respects the format earlier stated). The advantages of using the Predicate Builder **scripting** language over any traditional language such as C, C++ or else is that it is... ..logics related to Predicate building mostly reside outside binary code.

One or many Predicate Builder **scripts** can be associated to any word - part of speech pair. This relates to the reality... ..not have the same function or meaning than a boxing "ring").

A unique Predicate Builder **script** may also be associated to any word of a given part of speech. As an... ..invention is not so limited, it would be impractical to require a unique Predicate Builder **script** to define the CARDINAL NUMBER "one" and a different one for "two" and so on. Instead, auto-**scripts** are used in such situations. An auto-**script** is a Predicate Builder **script** that typically can be associated with all words of a predefined part of speech. By... ..and not intending to limit the invention in any manner, when I 0 desired, auto-**scripts** are defined by populating a procedural token \$+.autoscript&POS+\$ where 'POS' is the part of speech.

To define an auto-**script** for CARDINAL NUMBER parts of speech words, the following syntax would typically be used.

\$+DEFINE(.autoscript&CARDINAL-NUMBER)+\$ Put Predicate Builder **script** here I

For example, in Fig. 9D, the part of speech FLIGHT is defined. The... ..In order to assign a valid Predicate to the FLIGHT part of speech, an auto-**script** Predicate Builder **script** needs to be associated with the part of speech FLIGHT (by defining the procedural token.autoscript&FLIGHT). Content of the Predicate Builder **script** should in that case detect an optional airline company name in any child node of... ..of example and not intending to limit the invention in any manner, the FLIGHT auto-**script** could generate the following Predicate for the sequences of words stated previously.

PP (CLASS:V... ..is done by invoking the \$+RESERVE+\$ entry I 0 point token from a Predicate Builder **script**. As an example, if the sequence "be 4" is detected during Conceptual Analysis, knowing that...application - available in the examples section of this application, the programming engineer produced Predicate Builder **scripts** associated with each word that may be used to utter a command so that a... ..process is then tightly related to the programming engineer's choices made during Predicate Builder **script** production. The programming engineer may choose to handle identified concepts while not handling others, and... ..of a flight response system could well have used different assumptions during the Predicate Builder **script** production phase, that would have resulted in a different Post-Analysis process and would be... ..been set to true by an entry point token in any of the Predicate Builder **script** interpreted from Step 1814 in Fig. 18. If no, Step 1744 sets IP to RP... ..if there is a mCDScript entry that is not clear in SM. Since the Flatten **Script** sub-process was called at Fig. 7 prior to adding the TReco to WL, the algorithm can count on the fact that at 5 most, one Predicate Builder **script** will be in mCDScript in SM. If yes, Step 1810 sets CDScript CD to the... ..Step 1814 parses CD. Parsing involves applying the string replacements related to a Predicate Builder **script** in such a way that all tokens were processed and that result is a Predicate... ..parts of speech and/or spellings and follow the same syntactic rules as a transform **script** line between Stream 1 5 delimiters.

In Step 2102, the Find Packet sub-process is... ..utterance, and then a logical flag could be set to true to identify that transform **scripts** were loaded for future utterances.

2. By sorting all phonemes in each ti-ine-slice... ..of this optimization section would reside in an address in memory. Once a Predicate Builder **script** generates a Predicate structure, it would then build the Predicate structure in

memory and add... would be stored as a reference from the stream. That way, if future Predicate Builder **script** operations require the same stream to be calculated again, the cached value would be used... ..recalculate and get to the same Predicate structure as a result.

7. The Predicate Builder **scripting** language is an interpreted language. In order to get better performance from Conceptual Analysis, a compiler could be written for the Predicate Builder **scripting** language. The process of writing compilers is well known to those skilled in the art... ..further explanation is not required since there is nothing processed specially in the Predicate Builder **scripting** language described in the invention.

8. In order to minimize how many sequences of words ... ..pronunciation could refer to a word that would have the spelling "<EhINTERJECTION>", a Predicate Builder **script** that is NULL (not holding any meaning related to the word part of speech pair ... ..of speech could not I O make a sequence of words fail for any transform **script** line that is being validated. So, the 'eh' sound could be found anywhere in the... ..generate a SENTENCE part of speech which would have been produced by analyzing all transform **scripts** that could be built following the same rules as the ones described in the preferred...

#### Claims:

...is generated by deriving 5 candidate phonemes from the results generated by application of the **Backus-Naur** (BNF) technique to the speech sample. 105. The method of claim 85, further comprising the... ..I I O. The method of claim 107, wherein syntactically analyzing comprises applying syntactic transform **scripts** to the potential syntactic structures. I I I. The method of claim 107, further comprising... ..words from which candidate phonemes are derived.

125. The system of claim 117, wherein said means for generating a phoneme stream comprises a processor executing the **Backus-Naur** (BNF) technique to produce results from which candidate phonemes are derived. 126.

The system of claim 117, wherein the phoneme stream comprises a plurality of timeslices, at... ..The system of claim 133, wherein the syntactic analysis includes the application of syntactic transform **scripts** to the potential syntactic structures. 137. The system of claim 133, wherein the processor is... ..system of claim 176, wherein said word aggregation means is adapted to apply syntactic transform

**scripts** to the potentially syntactic structures to generate syntactically valid sequences of words. I O 179... ..parsing process. 191. The method of claim 188, wherein syntactically analyzing comprises applying syntactic transform **scripts** to the potential syntactic structures. . The method of claim 184, wherein each of the candidate... ..language.

237. The method of claim 236, wherein the semantic rules comprise a predicate builder **scripting** language. 238.

The method of claim 237, wherein the semantic rules comprise a compiled language. 239. The method of claim 211, wherein the candidate words... ..the speech input comprises deriving candidate phonemes from the result of the application of the **Backus-Naur** (BNF) technique to the speech input, the candidate phonemes being used to identify the list... ..language. 274. The system of claim 273, wherein the semantic rules comprise a predicate builder **scripting** language. 275. The system of claim 273, wherein the semantic rules comprise a compiled language ... ..input comprises means for deriving candidate phonemes from the result of the application of the **Backus-Naur** (BNF) technique to the speech input, the candidate phonemes being used to identify the list... ..method of claim 306, wherein the semantic rules comprise an interpreted language. 308.

The method of claim 307, wherein the semantic rules comprise a predicate builder **scripting** language. 309. The method of claim 307, wherein the semantic rules comprise a compiled language... ..the speech input comprises deriving candidate phonemes from the result of the application of the **Backus-Naur** (BNF) technique to the speech input, the candidate phonemes being used to identify the list... ..system of claim 343, wherein the semantic rules comprise an

interpreted language. 345. The system of claim 344, wherein the semantic rules comprise a predicate builder **scripting** language. . The system of claim 344, wherein the semantic rules comprise a compiled language. 347...  
...The system of claim 317, wherein the means for processing the speech input comprises means for deriving candidate phonemes from the result of the application of the **Backus-Naur** (BNF) technique to the speech input, the candidate phonemes being used to identify the list...

1/3K/42 (Item 15 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01080182

**A SYSTEM FOR EXCHANGING BINARY DATA**

SYSTEME PERMETTANT D'ECHANGER DES DONNEES BINAIRES

**Patent Applicant/Inventor:**

• **FAIRWEATHER John**

1649 Wellesley Drive, Santa Monica, CA 90405; US; US(Residence); US(Nationality);

**Legal Representative:**

• **THIESSEN Kendall I(et al)(agent)**

Gibson, Dunn & Crutcher LLP, 1801 California Street, Suite 4100, Denver, CO 80202; US;

	Country	Number	Kind	Date
Patent	WO	200402044	A2-A3	20031231
Application	WO	2003US3157		20030203
Priorities	US	2002353487		20020201

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PT; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 40602

**Detailed Description:**

...more complex than simple array indexing.

"fScript" 120 - Arbitrary and pre-defined actions, functions, and **scripts** may be associated with any field of a type. These '**scripts**' are held in a formatted character string referenced via a relative reference from this field.

"fAnnotation" 122 - In a manner similar to **scripts**, the text field referenced from this field can contain arbitrary annotations associated with the field... ..to link key types into a list.

"tScript" 242,"tAnnotation" 244 - These fields reference type **scripts** and annotations as for ET-Field 100.

4 4maxFieldIndex" 248 - This field contains the maximum... ..which have values which will be initialized to the appropriate default (either via annotation or **script** calls - not discussed herein). The function TM-NewPtr allocates and initializes a heap data pointer ...additional features. The language symbols associated with these extensions to C are as follows.

**script** used to associate a **script** with a type or field

annotation used to associate an annotation with a type or... ..27

@ relative reference designator (like '\*' for a pointer)

@@ collection reference designator

persistent reference designator

<on> **script** and annotation block start delimiter

<no> **script** and annotation block end delimiter

>< echo field specification operator

In order to complete the types...streams of tokens according to a language definition specified via a meta-language such as **Backus- Naur** Form (BNF), and a code generator/interpreter. The creation of compilers is conventionally a lengthy...of specifying a grammar as illustrated in Figure 1 is a custom variant of the **Backus- Naur** Form (or BNF). It is the oldest and easiest to understand means of describing a...may vary between languages to be recognized. This is particularly true if a non-Roman **script** system is involved, such as is the case for many non-European languages. In order ... ..for in-depth analysis. High performance text search applications can also be used on foreign **scripts** by using one or more character encoding systems, such as those developed by Unicode and...or> inline stmt <or>

typedef declaration <or> <@1:16> <1:Identifier>

( opt-param -list ) <or> **script** typedef

orUnion <@1:26>

more

**script** ; <or> annotation typedef

or-union <@1:26> more-annot

more

**script** field-Path <on> <@1:25> <no> <or> <on> <@1:25> <no>

more-annot field

path... ..elif #else #endif #pragma <eol> 150..153

#error #include #ifdef #ifndef /\* #line <eol> 154..158

**script** annotation @ @@ <eol> 159..163

<on> . <no> >< inline <eol> 164..167

<next>

0 1 1 a... ..tokenNumber 1= 164 && tokenNumber != 84)

// sucking in a field path spec.

if ( tokenNumber // ends where **script** block starts...

PS-SetTokenState(aParseDB,curTokPtr,curTokSize,-3);

else if ( tokenNumber == 165 ) // end **script**/annotation <no>

```

PSI ClrFlags(aParseDB,kScriptEatEverything);
else if ( PS
GetFlags(aParseDR) & kScriptEatEverything
// in script eat everything mode
if ( tokenNumber // don't mess with BOL tokens
PS-SetTokenState(aParseDB,curTokPtr,curTokSize,-3);
else if ( tokenNumber == 164 begin script/annotation <on>
PS-ClrFlags(aParseDB,kScanTillEndOfField+kSkipEchoField);
PS - SetFlags(aParseDB,kScriptEatEverything);
if ( state->script ) KILL-HDL(state->script );
PS-GetSourceContext(aParseDB,&baseAdd,&tokOff,&tokSiz);
comment = &baseAdd[tokOff+tokSiz];
eoc strstr(comment,11<no>11); see where it ends
if eoc )
state-> script = extract comment
else if ( tokenNumber == 68 end block comment
PS- ClrFlags(aParseDB,kGobbleDlockComment);
PS-SetTokenState... comments);
break;
case 27: grab a field/type annotation
case 25: grab a field/type script
// not relevant to this patent
break;
case 26: start non-in-line field
// not relevant...

```

### Claims:

...of the following types of information associated with them: descriptive text; field units, named executable **scripts**; named annotation records; custom display, edit, and other handler processes; type-converter processes; key) The...

1/3K/43 (Item 16 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01070520

**MULTIMEDIA RE-EDITOR**

RE-EDITEUR MULTIMEDIA

**Patent Applicant/Patent Assignee:**

- **UNIVERSITY OF MIAMI**; 1252 Memorial Drive, Coral Gables, FL 33146  
US; US(Residence); US(Nationality)

**Legal Representative:**

- **NELSON Gregory A(agent)**  
Akerman, Senterfitt, 222 Lakeview Avenue, Suite 400, P.O. Box 3188, West Palm Beach, FL 33402-3188; US;

	Country	Number	Kind	Date
Patent	WO	2003100621	A1	20031204
Application	WO	2003US11441		20030415
Priorities	US	2002147796		20020517

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PT; RO; SE; SI; SK; TR;

Publication Language: English

Filing Language: English

Fulltext word count: 6615

**Detailed Description:**

...and educational materials. Specifically, a re-editor document can include grammar rules specified in modified **Backus Naur Format**. For example.

"first grammar name"

<sentl > = this <isl > a <testl > of the grammar rules... ..not

shown in Figures 3A-3D can include the linking of externally executable programs or **scripts** to selected portions of an underlying textual document. For instance, where the underlying textual document...





1/3K/44 (Item 17 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01068790

**DYNAMIC CONTENT GENERATION FOR VOICE MESSAGES**

GENERATION DE CONTENU DYNAMIQUE DESTINEE A DES MESSAGES VOCAUX

**Patent Applicant/Patent Assignee:**

- **SAP AKTIENGESSELLSCHAFT**; Intellectual Property Department, Neurtstrasse 16, 69190 Walldorf  
DE; DE(Residence); DE(Nationality)  
(For all designated states except: US)
- **GILMORE Jeffrey A**; 730 Le Mans Way, Half Moon Bay, CA 94019  
US; US(Residence); US(Nationality)  
(Designated only for: US)
- **BYRNE William J**; 818 Shirley Avenue, Sunnyvale, CA 94086  
US; US(Residence); US(Nationality)  
(Designated only for: US)
- **GARDELLA Henry William**; 1334 Rosalia Avenue, San Jose, CA 95130  
US; US(Residence); US(Nationality)  
(Designated only for: US)

**Patent Applicant/Inventor:**

- **GILMORE Jeffrey A**  
730 Le Mans Way, Half Moon Bay, CA 94019; US; US(Residence); US(Nationality); (Designated only for: US)
- **BYRNE William J**  
818 Shirley Avenue, Sunnyvale, CA 94086; US; US(Residence); US(Nationality); (Designated only for: US)
- **GARDELLA Henry William**  
1334 Rosalia Avenue, San Jose, CA 95130; US; US(Residence); US(Nationality); (Designated only for: US)

**Legal Representative:**

- **TROESCH Hans R(agent)**  
Fish & Richardson P.C., 500 Arguello Street #500, Redwood City, CA 94063; US;

	Country	Number	Kind	Date
Patent	WO	200398905	A1	20031127
Application	WO	2003US15537		20030515
Priorities	US	2002380273		20020515
	US	2002284459		20021031

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;

FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 10257

#### **English Abstract:**

...voice response system includes processing a dynamic content command to identify a dynamic content generation **script**, dynamically processing the dynamic content generation **script** to generate a dynamic voice message, and presenting the dynamic voice message.

#### **French Abstract:**

...procede consiste a traiter une commande de contenu dynamique aux fins d'identification d'un **script** de generation de contenu dynamique, a traiter de maniere dynamique le **script** de generation de contenu dynamique aux fins de generation d'un message vocal dynamique et...

#### **Detailed Description:**

...response systems that use speech recognition technology, and more particularly to dynamic content generation in **scriptbased** voice-enabled applications.

#### **BACKGROUND**

Speech recognition technology is playing an increasingly important role in how... ..voice response system includes processing a dynamic content command to identify a dynamic content generation **script**, dynamically processing the dynamic content generation **script** to generate a dynamic voice message, and presenting the dynamic voice message.

Implementations may include... ..features. For example, processing the dynamic content command may include accessing the dynamic content generation **script** from a data store. Processing the dynamic content command may also include generating one or... ..file extension value, a format value, or a voice value.

Processing the dynamic content generation **script** may include retrieving information from a data store. Processing the dynamic content generation **script** may also include accessing backend systems to retrieve data used to generate the dynamic voice message. The dynamic content generation **script** may be written using a dynamic markup system. The dynamic markup system may be Java... ..Language.

The dynamic content command may be used in a voice program written in a **scripting** language. The **scripting** language may be voice extensible markup language or speech application

language tags. The dynamic voice... processor, and a voice gateway. The data store stores one or more dynamic content generation **scripts**. The voice application processor receives a dynamic content command, identifies a dynamic content generation **script** based on the dynamic content command, retrieves the dynamic content generation **script** from the data store, and dynamically processes the dynamic content generation **script** to generate a voice message. The voice gateway presents the voice message to a user... to generate the voice message. The voice application processor may process the dynamic content generation **script** by accessing the backend system to retrieve data used to generate the voice message.

h ... aspect, a method for dynamically generating one or more voice program instructions in a voice **script** code segment includes receiving a dynamic content instruction. The dynamic content instruction includes a dynamic... with one or more voice program instructions.

The method includes identifying a dynamic content generation **script** based on the identifier parameter and processing the dynamic content generation **script** to generate one or more voice program instructions.

In another general aspect, a dynamic content instruction in a voice **script** instruction set architecture may be used to generate one or more voice program instructions. The... voice program instructions.

The dynamic content instruction is processed by processing a dynamic content generation **script** corresponding to the identifier parameter.

In another general aspect, a method for dynamically generating one or more voice program instructions in a voice **script** code segment includes receiving a dynamic content instruction. The dynamic content instruction includes a dynamic... with one or more voice program instructions.

The method includes identifying the dynamic content generation **script** based on the identifier parameter and determining whether to generate one or more voice program instructions based on the dynamic content generation **script**.

The details of one or more implementations are set forth in the accompanying drawings and... system.

3

Fig. 3 is a flowchart of a process for dynamically generating a voice **script** using dynamic content generation commands.

Fig. 4 is a flowchart of a process for building... program instruction corresponding to a dynamic content generation command.

Fig. 5 is an exemplary voice **script** that includes dynamic content generation commands.

Fig. 6 is a dynamic content generation **script** for introducing commands in an interactive voice response system.

Fig. 7 is a dynamic content generation **script** for playing an introduction in payroll 10 interactive voice response system.

Fig. 8 is a dynamic content generation **script** for playing verbose introductions in an interactive voice response system.

Fig. 9 shows the **script** of Fig. 5 after processing all of the dynamic content generation commands and the corresponding audio output generated by the **script**.

Fig. 10 shows an alternate expansion of the **script** of Fig. 5 after processing all of the dynamic content generation commands and the corresponding audio output.

Fig. 11 is another dynamic content generation **script**.

Figs. 12-14 illustrate various audio **scripts** that may be generated by the **script** of Fig. 5.

Like reference symbols in the various drawings indicate like elements.

**DETAILED DESCRIPTION...** 110. In some implementations, the voice gateway 108 processes voice programs that are **script**-based voice applications. The 10 voice program, therefore, may be a **script** written in a **scripting** language such as, for example, voice extensible markup language (VoiceXML) or speech application language tags... voice application server. The voice application system 110 sends voice application programs or **scripts** to the voice gateway 108 for processing and receives, in return, user responses. The user responses are analyzed by the system 110 and new programs or **scripts** that correspond to the user responses may then be sent to the voice gateway 108... be a combination of, for example, java servlets, java server pages, otherjava code, and voice **scripts** such as VoiceXML **scripts** or SALT **scripts**. The application server 212 provides the voice gateway 208 with voice **scripts** to execute. The application code executed by the application server 212 coordinates which **scripts** to send to the voice gateway 208. The application server 212 frequently processes the **scripts** before sending the processed **scripts** to the voice gateway 208.

The application server 212 may communicate with the voice gateway... device that stores files necessary for execution of the voice application. Such files typically include **script** files, prompt files, grammar files, and text-to-speech (TTS) text files.

**Script** files are text files that include a series of embedded tags. The tags indicate which... defines a grammar used to "hear" and understand the spoken response of the caller.

6

**Script** files also generally contain limited logic that controls the sequence and defines rules for how... to conditions, such as misunderstood speech or a lack of speech from the caller. The **script** files are processed by the interpreter program 208b of the voice gateway 208.

Prompt, grammar, and TTS text files are accessed by the interpreter program 208b while processing the **script** file. When executing a prompt instruction, the interpreter program 208b either accesses a prompt file... Format (JGSF) or Speech Recognition Grammar Specification 1.0 extensible markup language (XML) or augmented **Backus-Naur** forms (A-BNF).

The data store 214 may be external to or located inside the... prompt and grammar files from a completely different web server.

The voice gateway 208 receives **script** files from the application server 212 which obtains the files from the data store 214. The application server 212 may process the **scripts** prior to sending the processed **scripts** to the voice

gateway 208.

The backend systems 216 include computing systems in the computing... information and customer data.

In typical operation, the voice gateway 208 retrieves the initial voice **script** from local memory and/or from the application server 212 and parses the **script** using the interpreter program 208b. The gateway 208 parses the **script** by searching and executing the voice-specific instructions within the **script**. For example, the first voice-specific instruction may be a prompt instruction. The prompt instruction... and play text included in the prompt instruction.

The next voice-specific instruction in the **script** may be, for example, a grammar instruction. The interpreter program 208b of the gateway 208... the 1 0 grammar instruction. If the spoken input is consistent with the grammar, the **script** may execute a prompt instruction tailored to the input. If the spoken input is not consistent with the grammar, the **script** may execute a different prompt instruction that informs the caller that the system does not understand the caller.

The interpreter program 208b continues parsing and processing the **script** in this manner. When the **script** is completed and the necessary responses are collected from the caller, the interpreter 208b assembles... the application server 212. The application server 212 processes the request and may send another **script**, if necessary, to the gateway 208.

A dynamic content generation (DCG) command may be used in the voice **scripts** to significantly increase the ability of the **scripts** to dynamically change in response to different types of callers and in response to different caller inputs. DCG commands are inserted into the text of the **scripts** when the **scripts** are created, prior to storing them in data store 214. When the voice gateway 208 requests a **script** from the application server 212, the application server 212 accesses the **script** from the data store 214 and processes the

**script** by resolving any DCG commands within the **script** into voice instructions (i.e., grammar or prompt instructions). The server 212 then sends the processed **script** to the voice gateway 208, and the voice gateway 208 presents the **script** to the caller, for example, as an audio message.

Fig. 3 shows a process 300 to dynamically generate a voice **script** or voice message using DCG commands. A voice gateway may be used to present the dynamically generated voice **script** or voice message to a caller. The operations of process 300 may be performed, for example, by the application server 212 which may then send the resulting dynamically generated voice **script** to the voice gateway 208 for presentation to the caller.

The process 300 includes receiving a DCG command (operation 305) by parsing a voice **script** that contains one or more DCG commands. The DCG command includes a dynamic content code... resolve into any voice instructions. The identifier parameter links the DCG command to a DCG **script** or, if no DCG **script** exists, the identifier parameter links the DCG command to a prompt file or a grammar... and has the value "command-intro." The process 300 includes attempting to retrieve a DCG **script** corresponding to the DCG command from the data store 214 (operation 310). If the DCG **script** exists, it will be stored in a file identified by the identifier parameter of the... If such a file exists, the server 212 retrieves it and begins processing the DCG **script** (operation 315).

The process 300 includes processing the DCG **script** to generate none, one, or more than one new DCG commands (operation 315). DCG **scripts** are logic files that define the conditions under which different prompt instructions or grammar instructions may be returned into the voice **script**. The DCG **scripts** may be written, for example, using

dynamic **script** markup systems and may access any objects, data, or methods stored in the application system 210. Examples of dynamic **script** markup systems include JSP/Java syntax, Practical Extraction and Report Language (PERL), Python, and Tool Command Language (TCL). The result of processing a DCG **script** (operation 315) is none, one, or more than one new DCG commands. Some of the new DCG commands may refer to other DCG **scripts**, and others may refer directly to prompt or grammar files.

If a new DCG command refers to another DCG **script**, the server 212 performs operations 305, 310, and 315 again; except this time the operations are performed for the new DCG command. A DCG **script** is, therefore, able to use DCG commands to recursively call other DCG **scripts** via recursive operations 305, 310, and 315. This

9 recursive process provides voice application developers with the ability to generate very dynamic voice **scripts**/messages.

If a new DCG command does not refer to another DCG **script**, the server 212 attempts but fails to access a corresponding DCG **script** file, and, upon failing, a voice program instruction corresponding to the new DCG command is built (operation 320) and returned in sequence to the voice **script** (operation 325). Operations 320 and 325, thereby, completely resolve the new DCG command and convert it into a voice instruction that is returned to the voice **script**.

The process 300, therefore, may be used to resolve each DCG command in 10 sequence, recursively evaluating DCG **scripts** as necessary until all DCG commands resolve into no commands or into DCG commands that refer to grammar or prompt files, rather than to DCG **scripts**. The DCG commands that refer to grammar or prompt files are converted into voice instructions that are returned to the voice **script** at the location of the original DCG command (via operations 320 and 325) in the... they are resolved.

The result of processing all of the DCG commands in the voice **script** is a voice **script** in which all of the DCG commands have been replaced by none, one, or more than one voice instructions. DCG **scripts**, thereby, allow a voice developer to create voice **scripts** that vary in content on-the-fly depending on any kind of selection logic, calculations, or backend access used to decide which voice instructions to return to the voice **script**. For example, if the **scripts** use JSP technology, the selection logic may include any operators, variables, or method calls that... by separating out the logic that selects the prompt or grammar fi-om the voice **script** and placing it in the DCG **script** files, the voice **scripts** may be easier to read and maintain.

Fig. 4 shows a process 400 that may... corresponding to the identifier parameter of the DCG command (operation 430). Prompt instructions supported by **scripting** languages such as VoiceXML may include a block of text within the instruction (e.g... prompt instruction the block of text accessed in operation 430. For

12 example, if the **scripting** language is VoiceXML, the resulting voice instruction that is built up corresponding to the DCG ... handles basic internationalization, format selection, and voice selection.

Fig. 5 shows an exemplary VoiceXML voice **script** 500 using Java ServerPages technology that may be used by the voice application system 210 to generate a dynamic VoiceXML **script**. The dynamic VoiceXML **script** may be converted into a dynamic voice message by the voice gateway 208 and presented to a caller.

15 The application server 212 may retrieve the **script** from a data store 214 and may process the **script** by identifying the DCG commands within the **script** and processing each DCG command individually in accordance

with processes 300 and 400.

The voice **script** 500 includes four DCG commands 510 DCG command 530 is the only command that is linked to a DCG **script**. DCG command 510 is linked to a grammar file, and DCG commands 520... ..hear your options.

what-to-do.wav What would you like to do?

The DCG **script** file, the grammar file and the prompt files listed above may be stored in the... ..with the exception that a "Axt" extension replaces the ".wav" extension.

After accessing the voice **script** from the data store 214, the application server receives the first DCG command 510 in the voice **script** (operation 305). The DCG command 510... ..code "sniartGrammar" and the identifier parameter "command." The server 212 attempts to retrieve a DCG **script** that corresponds to the DCG command 510 by accessing a DCG **script** file named 64commandj sp" from the data store 214 (operation 310). The **script** file named "commandj sp," however, does not exist because the DCG command 510 is not linked to a DCG **script**. The server 212 is, therefore, unable to access a **script** with that name and, upon failing to access such a **script**, proceeds to build a voice instruction corresponding to the DCG command 510 (operation... w3c-xmVen-us/conunand.grxml"/>."

The server 212 returns this voice instruction into the voice **script** 500 in place of DCG command 510 (operation 325). The server 212 then proceeds to the next DCG command in the voice **script** 500.

The server 212 receives the second DCG command 520 (operation 305) and attempts to find a corresponding DCG **script** named "welcome.isp" (operation 310). The **script** file named "welcomej sp," however, does not exist because the DCG command 520 is not linked to a DCG **script**. The server 212 proceeds to build a voice instruction (operation 320) using process 400. The... ..BigCorp Payroll.

</audio>. 17

15  
The server 212 returns this voice instruction into the voice **script** 500 in place of the DCG command 520 (operation 325). The server 212 then proceeds to the next DCG command in the voice **script** 500.

The server 212 receives the third DCG command 530 (operation 305), attempts to find a corresponding DCG **script** named "connnand-introj sp" (operation 310), and successfully retrieves the **script** 600 shown in Fig. 6. The server 212 then processes the **script** 600 (operation 315).

The **script** 600 checks the value of a history tracker (PayrollMainCounter, line 610). The history tracker... ..10 caller has accessed a system, such as, for example, the system 210. The **script** 600 provides a verbose introduction the first time the caller accesses the system 210, a... ..no DCG command is executed. Both of the DCG commands 630 and 650 in DCG **script** 600 refer to DCG **scripts** rather than to prompt files. The value of the history tracker, therefore, determines which new DCG command results from server 212 processing DCG **script** 600.

If the history tracker value is zero, the resulting new DCG command is DCG... ..The application server 212 receives DCG command 630 (operation 305), attempts to retrieve a DCG **script** named "verbose-introj sp" (operation 310), and successfully retrieves the **script** 700 shown in Fig. 7. The server 212 then processes the **script** 700 (operation 315).

The **script** 700 plays two introduction prompts and then checks whether the application should play a third... ..the

current caller is a 401k participant, the third introduction prompt is played (line 760). **Script 700** ends by playing a random help prompt.

1 6

Specifically, the **script 700** starts by invoking a Java component that accesses backend systems 216 and allows the **script 700** to request information about the current caller's payroll (line 715).

DCG command 720... ..212 using process 300. Since the DCG command 720 does not refer to another DCG **script**, the DCG command 720 may be converted into a prompt instruction and returned to the voice **script 500**.

Specifically, operations 305, 310, 320, and 325 of process 300 are executed by the... ..usual... OK, let's get started.

</audio>."

This voice instruction is returned to the voice **script 500** at the location of DCG command 530.

Similarly, DCG command 730 does not refer to a DCG **script** and is, therefore, resolved by server 212 into the following voice instruction.

"<audio src = "prompts... ..BALANCE, or ADJUST MY W4.

</audio>."

This voice instruction is also returned to the voice **script 500** and inserted at the location of DCG command 530. Because DCG command 730 is... ..DCG command 720, the voice instruction corresponding to DCG command 730 is inserted into the

**script** after the voice instruction corresponding to DCG command 720.

The **script 700** then checks whether the value named "change401V is set to true and invokes the... ..command 750  
1 7

is executed. DCG command 750 does not refer to a DCG **script**, and is, therefore, resolved by server 212 into the following.

"<audio src ="prompts/8 ulaw... ..retirement withholding, say 40 1K PLAN.

</audio>."

This voice instruction is returned to the voice **script 500** and inserted at the location of DCG command 530 after the inserted voice instructions ... ..set to true, however, no DCG command is executed and no voice instruction is inserted.

**Script 700** concludes with a DCG command 760 that resolves into a random help prompt instruction. DCG command 760 refers to a DCG **script** named

"random-help

available.jsp" 800 shown in Fig. 8. The **script 800** executes a function

known as "smartRandom" (line 8 1 0) that randomly returns one... ..a row. The prompt instruction built by the smartRandom function is returned to the voice **script 500** and inserted at the location of DCG command 530 after the inserted voice instructions corresponding to DCG commands 730, 740, and 750.



After **script** 800 is processed, the server 212 returns to **script** 700 and continues processing **script** 700 from where it left off. **Script** 700, however, has no more operations after DCG command 760 and, therefore, the server 212 returns to **script** 600 and continues processing **script** 600 from where it left off. Similarly, because the history tracker was set to zero, **script** 600 has no more operations after DCG command 630 and, therefore, server 212 returns to **script** 500 and continues processing **script** 500 from where it left off. **Script** 500, however, does have another operation to be executed by the server 212 after DCG... Specifically, DCG command 540 is resolved.

DCG command 540 does not refer to a DCG **script** and, therefore, server 212 may resolve the command by executing operations 305, 310, 320, and... command 530.

After resolving DCG command 540, the server 212 is done processing the voice **script** 500. The server 212 then sends the processed voice **script** (i.e., the dynamically generated voice **script**) to the gateway 208. The processed voice **script** 900 and the associated audio output 910 heard by the caller are shown in Fig. 9. The processed voice **script** 900 corresponds to the voice **script** 500 when the caller has accessed the system for the first time (i.e., payrollMainCounter... voice instructions.

Fig. 10 is similar to Fig. 9 but shows a processed voice **script** 1000 and associated audio output IO 10 that correspond to when the caller... payroll.change 40110option--false). Processes 300 and 400 may be used to generate processed voice **script** 1000 in an analogous manner as discussed above to generate processed voice **script** 900 from voice **script** 500.

Fig. 11 shows a DCG **script** file named "terse-intro-group j sp" 1100 **Script** file 1100 is invoked when processing **script** file 600 if the caller has accessed the system between two and five times (line... 300 and 400 in an analogous manner as that used to resolve DCG command 630. **Script** 1100 skips the prompt instruction that plays intro 1, includes the prompt instruction that plays... instruction that plays intro 3 (depending on the payroll.change401k0option setting in the configuration file). **Script** 1100 further includes the help prompt instruction that is generated randomly.

Fig. 12 is similar to Fig. 9 but shows a processed **script** 1200 and associated audio output 1210 that correspond to when the caller has accessed... e.,

19

payroll.change401k0option---true). Processes 300 and 400 are used to generate processed **script** 1200 in an analogous manner as discussed above to generate processed voice **script** 900 from voice **script** 500.

**Script** file 1100 is invoked when generating processed **script** 1200.

Fig. 13 is similar to Fig. 12 but shows a processed **script** 1300 and associated audio output 1310 that correspond to when the caller has ... that may not be changed (i.e., payroll.change401k0option--false).

Fig. 14 shows a processed **script** 1400 and associated audio output 1410 that correspond to when the caller has... assumed to already know the system.

As shown in Figs. 5-14, a single voice **script** that contains DCG commands may be used to dynamically generate any one of five different voice **scripts**. The **script** that is ultimately generated and presented as a voice message to the caller is determined... on external criteria.

A group of prompts may be played by including in the voice **script** a single DCG command that refers to a DCG **script** that returns multiple prompt instructions. For example, the command "smartPrompt name-- 'main-tutorial...

cou'Id... new prompt may be inserted into the tutorial by editing the properties of the DCG **script**  
20

main tLitorialjsp". This feature may also be useful for internationalization when language differences require...  
...may be selected at random from a group of prompts by

including in the voice **script** a single DCG command that refers to a DCG **script** that includes a randomization function. An example of such a random prompt DCG command is... or grammar may be selected based on an external criteria by including in the voice **script** a single DCG command that refers to a DCG **script** that provides a simple rule-matching function based on external criteria. Such criteria may be... the switch is enabled (i.e., set to true), the DCG command invokes a DCG **script** that generates prompts and grammars that ask and hear the caller's passcode and PIN...

## Claims:

...message, the method comprising:

processing a dynamic content command to identify a dynamic content generation **script**; dynamically processing the dynamic content generation **script** to generate a dynamic voice message; and presenting the dynamic voice message.

2 The method of claim 1 wherein processing the dynamic content command

includes accessing the dynamic content generation **script** from a data store. 3 . The method of claim 1 wherein processing the dynamic content generation **script** includes generating one or more new dynamic content commands that are then processed in sequence ... dynamic content command.

16 The method of claim 1 wherein processing the dynamic content generation **script** includes retrieving information from a data store.

17 The method of claim 1 wherein processing the dynamic content generation **script** includes accessing backend systems to retrieve data used to generate the dynamic voice message.

18 The method of claim 1 wherein the dynamic content generation **script** is written using a dynamic markup system.

19 The method of claim 18 wherein the... I wherein the dynamic content command is used in a voice program written in a **scripting** language.

21 The method of claim 20 wherein the **scripting** language is voice extensible markup language.

22 The method of claim 20 wherein the **scripting** language is speech application language tags.

23 The method of claim 20 wherein presenting the... voice response system comprising:

a data store that stores one or more dynamic content generation **scripts**; a voice application processor configured to receive a dynamic content command; 24 identify a dynamic content generation **script** based on the dynamic content command; retrieve the dynamic content generation **script** from the data store; and dynamically process the dynamic content generation **script** to generate a voice message; and a voice gateway configured to present the voice message... wherein the voice application processor is I 0 configured to process the dynamic content generation **script** by accessing the backend system to retrieve data used to generate the voice message.

27 ... 24 wherein the voice application server is configured to dynamically process the dynamic content generation **script** by processing the dynamic content generation **script** to generate one or more new dynamic content commands that

are then processed in sequence... new dynamic content command.

40 The system of claim 24 wherein the dynamic content generation **script** is written using a dynamic markup system.

- 41 The method of claim 40 wherein the... is configured to receive a dynamic content command from a voice program written in a **scripting** language.
- 43 The system of claim 42 wherein the **scripting** language is voice extensible markup language.
- 44 The system of claim 42 wherein the **scripting** language is speech application language tags.
- 45 A method for dynamically generating one or more voice program instructions in a voice **script** code segment, the method comprising: receiving a dynamic content instruction including: a dynamic content code... one or more voice program instructions; and an identifier parameter; identifying a dynamic content generation **script** based on the identifier parameter; and processing the dynamic content generation **script** to generate one or more voice program instructions.
- 46 The method of claim 45 wherein the voice **script** code segment is written in voice extensible markup language.
- 47 The method of claim 45 wherein the voice **script** code segment is written in speech application language tags.
- 48 The method of claim 45... a grammar instruction.
- 50 The method of claim 45 wherein processing the dynamic content generation **script** includes generation of one or more new dynamic content commands that are then processed in... dynamic content command.
- 59 The method of claim 45 wherein processing the dynamic content generation **script** includes accessing backend systems to retrieve data used to generate the one or more voice program instructions.
- 60 hi a voice **script** instruction set architecture, a dynamic content instruction for generating one or more voice program instructions, the dynamic content instruction being part of the voice **script** instruction set and including: 1 0 a dynamic content code that identifies the instruction as... identifier parameter; wherein the dynamic content instruction is processed by processing a dynamic content generation **script** corresponding to the identifier parameter.
- 61 The instruction of claim 60 wherein the dynamic content... claim 60 wherein the dynamic content instruction is processed by processing a dynamic content generation **script** that generates one or more voice program instructions.
- 64 The instruction of claim 63 wherein... interactive voice response system, a method for dynamically generating voice program instructions in a voice **script** code segment, the method comprising: receiving a dynamic content instruction including: 1 0 a dynamic... one or more voice program instructions; and an identifier parameter; identifying a dynamic content generation **script** based on the identifier parameter; and determining whether to generate one or more voice program instructions based on the dynamic content generation **script**. 29

1/3K/45 (Item 18 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01065480

**INTEGRATED DEVELOPMENT TOOL FOR BUILDING A NATURAL LANGUAGE UNDERSTANDING APPLICATION**

**INSTRUMENT DE DEVELOPPEMENT INTEGRE PERMETTANT DE PRODUIRE UNE APPLICATION DE COMPREHENSION DU LANGAGE NATUREL**

**Patent Applicant/Patent Assignee:**

- **INTERNATIONAL BUSINESS MACHINES CORPORATION**; New Orchard Road, Armonk, NJ 10504  
US; US(Residence); US(Nationality)
- **IBM UNITED KINGDOM LIMITED**; P.O. Box 41, North Harbour, Portsmouth, Hampshire PO6 3AU  
GB; GB(Residence); GB(Nationality)  
(Designated only for: MG)

**Legal Representative:**

- **FOURNIER Kevin John(agent)**  
IBM United Kingdom Limited, Intellectual Property Law, Hursley Park, Winchester, Hampshire SO21 2JN; GB;

	Country	Number	Kind	Date
Patent	WO	200396217	A2-A3	20031120
Application	WO	2003GB1554		20030410
Priorities	US	2002140522		20020507

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 10915

**Detailed Description:**

...to parsing text strings  
using a context free grammar, commonly represented within the art using  
**Backus-Naur Form (BNF)** comprising terminals and non-terminals.

Terminals refer to words or other symbols which...build component of the IDT. The exemplary GUI 1100 includes several fields for specifying a **script** which can be run to "build" an NLU application. Field 1105 can be used to specify a particular file which can specify default parameters, other specialized parameters, the **script** to be executed, as well as information to be displayed after the **script** has been executed. The file further can specify a text file to be processed and used during regression testing.

Description field 1110 contains a description of the functionality of the **script**. Parameter list field 1115 can display a list of parameters which can be used for execution of the **script**. Field 1120 can be used to convey any additional information or remarks which can be relevant to the **script**. Notably, the description field 1110 and the additional information field 1120 can be useful in...

1/3K/46 (Item 19 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01036174

**A SYSTEM AND METHOD FOR MINING DATA**

**SYSTEME ET PROCEDE D'EXPLORATION EN PROFONDEUR DE DONNEES**

**Patent Applicant/Inventor:**

- **FAIRWEATHER John**

1649 Wellesley Drive, Santa Monica, CA 90405; US; US(Residence); US(Nationality);

**Legal Representative:**

- **THIESSEN Kendall I(et al)(agent)**

Gibson, Dunn & Crutcher LLP, 1801 California Street, Suite 4100, Denver, CO 80202; US;

	Country	Number	Kind	Date
Patent	WO	200365179	A2-A3	20030807
Application	WO	2003US3205		20030203
Priorities	US	2002353487		20020201

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PT; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 79606

**Detailed Description:**

...all sources and allowing cross-source analysis.

For example, in a current generation data-extraction **script**, the code involved in the extraction basically works its way through the text from beginning ...definitions that might be required as part of parser operation, and any custom

annotations and **scripts** (see Collections Patent) that might be necessary.

Within the <@ 1: 5> plug-in, in addition... immediately followed by a tab or space character (also works with spaces for right justified **scripts**), all other explicit line formatting is eliminated. The resulting string is returned.

36) [I] \$StringSetIndex... necessary to extract country information into a sample ontology is one of the most complex **scripts** thus far encountered in MitoMineTm applications due to the large amount of information that is being extracted from this source and preserved in the ontology. Because this **script** is so complex, it probably best illustrates a less than ideal data-mining scenario but... ..number of different built-in mining functions. Some of the results of running the extraction **script**

below can be seen in the Ontology patent relating to auto-generated UL

Note that...single country record, perhaps 50-1 00 records of different types are created by this **script** and associated in some way with the country including government personel, international organizations, resources, poulation ...

### Claims:

...may vary between languages to be recognized. This is particularly true if a non-Roman **script** system is involved, such as is the case for many non-European languages. In order...for in-depth analysis. High performance text search applications can also be used on foreign **scripts** by using one or more character encoding systems, such as those developed by Unicode and...streams of tokens according to a language definition specified via a meta-language such as **Backus -Naur Form (BNF)**, and a codegenerator/interpreter. The creation of compilers is conventionally a lengthy...of specifying a grammar as illustrated in Figure 1 is a custom variant of the **Backus- Naur Form (or BNF)**. It is the oldest and easiest to understand means of describing a...more complex than simple array indexing. "fScript" 120 - Arbitrary and pre- defined actions, functions, and **scripts** may be associated with any field of a type. These ' **scripts**' are held in a formatted character string referenced via a relative reference from this field. "TAnnotation" 122 - In a manner similar to **scripts**, the text field referenced from this field can contain arbitrary annotations associated with the field...to link key types into a list. "tScript" 242,"tAnnotation" 244 - These fields reference type **scripts** and annotations as for ET-Field 100. 44 maxFieldIndex" 248 - This field contains the maximum...which have values which will be initialized to the appropriate default (either via annotation or **script** calls - not discussed herein). The function TM-NewPtr allocates and initializes a heap data pointer...additional features. The language symbols associated with these extensions to C are as follows:**script** used to associate a **script** with a type or fieldannotation used to associate an annotation with a type or ... 115@ relative reference designator (like '\*' for a pointer)@@ collection reference designatorpersistent reference designator&lt;on&gt; **script** and annotation block start delimiter&lt;no&gt; **script** and annotation block end delimiter&gt;&lt; echo field specification operatorIn order to complete the types...the text for the tags. In a manner identical to that used in annotations and **scripts** (described below), tags could consist of named blocks of arbitrary text delimited by the "&lt;on...function, if the field value has not yet been obtained, this function will invoke a **script** which causes the referenced value to be fetched from storage and inserted into the collection...if the field collection value has not yet been obtained, this function will invoke a **script** for the field147which causes the referenced values to be fetched from storage and...the field domain collection value has not yet been obtained, this function will invoke a **script**, such as the "\$GetPersistentCollection" **script**, for the field which causes the referenced values to be fetched from storage and inserted...if 'aFieldName'is NULL, the tag is associated with the element itself. Unlike annotations and **scripts** (see the TypeScripts package) that are applied to the definitions of the type or ...if the two records refer to the same thing. This routine operates by invoking the **script** \$ElementMatch when it finds potentially matching records, this **script** can be registered with the ontology and the algorithms involved may thus vary from one...

embodiment, the 154 operation of the system is predicated on the application code registering comparison **scripts** that can be invoked via this function. The comparison **scripts** for other types would necessarily be different. A function that may also be included in...any complete data model is the ability to associate and execute arbitrary code or interpreted **script** routines whenever certain logical actions are performed on the data of one of its fields. In the system of this invention, this capability is provided by the ' **scripts** ' API (prefix TS) a portion of which could be implemented ...forref. fields#define kNoNodeInherit 0x08000000 options - !inherit from ancestor. nodescharHdl TS-GetFieldScript Get **script** for action &fieldETTypeDBHdl aTypeDBHdl, I:Type DB handle (NULL to default)ET-TypeID...collection nodeET-TypID \*fromWho, IO:registering type IDBoolean \*isLocal, IO:TRUE if local **script**, else false; aFieldName, may be sprintf for: Action **script**, NULL if none#define kGlobalDefnOnly 0x04000000 options - only obtain global def. Boolean TS-SetTypeScript( Set **script** for action &typeET-TypeDBHdl aTypeDBHdl, I:Type DB handle (NULL to default)ET-TypID name as in "<On> anAction"charPtr aScript, I:Type **script**/proc, NULL to removeint32 options I:Various logical options (see notes)R:TRUE for success, FALSE otherwise#define kLocalDefnOnly 0x00000001 options - local **script** override164#define kProcNotScript 0x00000002 options - waScript, is afn. addressBoolean TS-SetFieldScript( Set field action **script** ET-TypeDBHdl aTypeDBHdl, I:Type DB handle (NULL to default)ETTypeID aTypeID, I:Type... ..field pathcharPtr anAction, I:Selector name as in "<on> anAction"charPtr aScript, I:Field **script**/proc, NULL to removeint32 options, I:Various logical ...aFieldName may be sprintf for: TRUE for success, FALSE otherwisecharHdl TS-GetTypeScript( Get type **script** for actionET-TypeDBHdl aTypeDBHdl, I:Type DB handle (NULL to default)ET-TypID aTypeID... ..registering type IDBoolean \*isLocal IO:If non-NULL, set TRUE if localR: Action **script**, NULL if noneEn Err TS InvokeScript Invoke a type or field.9action **script**ET-...path-charPtr anAction, I: Action name as in "<on> anAction"charPtr aScript, I:type/field **script**, NULL to defaultETTypeID fromWho, I:Registering Type id, or 0anonPtr aDataPtr, I kInternalizeResults 0x00010000 options - value should be embeddedBoolean TS-RegisterScriptFn( register a **script**functionET-TypeScriptFn aScriptFunction, // 1:address of **script**functioncharPtr aName I:name of **script**functionR:TRUE for success, FALSE otherwiseEvery type or type field may also have 'action' **scripts** (or procedures) associated with it. For example, certain actions could be predefined to equate to... ..in the environment. Actions may also be arbitrarily extended and used as subroutines within other **scripts**, however, in order to provide a rich environment for describing all aspects of the behavior...to be manipulated without needing any prior knowledge of the type itself. Type and Field **script** procedures could have the following calling API, for example(ETTypeScriptFn):EngErr myScript H my **script** procedureEl@TypeID)BHdl aTypeDBHdl, H I:Type DB handle (NULL to default)ETjTypeID... ..Type IDcharPtr fieldName, H ffield name/path, NULL for typecharPtr action, H Iffthe **script** action being invokedcharPtr **script**, H I:The **script** textanonPtr dataPtr, H I:Type data pointer or NULLET-CollectionHdl aCollection, H ...additional params.H R:O for success, else Error numberIn the case of a **script**, these parameters can be referred to using \$action, \$aTypeDBHdl, \$typeID, \$fieldName and \$dataPtr, any additional parameters are referred to166by their names as defined in the **script** itself (the 'ap' parameter is not accessible from a **script**). Preferably, **Scripts** or **script** functions would return zero if successful, an error number otherwise. In the case of a C function implementing the **script**, the "ap" parameter can be used to obtain additional parameter values using va, argo. A number of **script** actions may also be predefined by the environment to allow registration of behaviors for commonly occurring actions. A sample set of predefined action **scripts** are listed below (only additional parameters are shown), but many other more specialized **scripts** may also be used: \$GetPersistentRef(El@PersistentRef \*persistentRef) Resolve a persistent reference, once the required... this may be useful in resolving the reference. The following options are defined for this **script**: kInternalizeResults the resultant value should be created within the referencing collection kGetNameOnly ...the reference NOT the actual value \$GetCollection(charft \$filterSpec, charPtr fieldList, ET-CollectionRef\*collectionRef) This **script** builds a type manager collection containing the appropriate elements given the parent type and field...of proxy types containing just the fields specified. The 'InternalizeResults' option may apply to this **script**. \$GetPersistentCollection(charPtr \$filterSpec, charPtr fieldList, ET PersistentRef \*persistentRef) This **script**/function is similar to 'GetCollection' but would be called only for persistent reference



fields. The purpose of this **script** is to obtain a collection (into the 'members' field of the ET PersistentRef) of the... of new values, clicking on this list selection will result in a call to this

**script** in order to populate the resulting menu. IfilterSpec" and "fieldList" operate in a similar manner to that described for lGetCollection". The UntemalizeResults' option may apply to this **script**.

\$InstantiatePersistentRef(ET-PersistentRef \*persistentRef) This **script** is called in order to ...a record for the persistent reference passed which contains a name but no ID. The **script** should check for the @existence of the named Datum and create it if not found... ..instantiate values into persistent storage vary from one data type to another and hence different **scripts** may be registeredforeachdatatype.

The'stringH'fieldofthepersistentreferencemayalsocontain additional information specific to the fields of the storage...field during mining results in setting the name sub-field. In the preferred embodiment, this **script** would clear the 'stringH' field after successful instantiation. \$InstantiateCollection(ET-CollectionRef \*collectionRef) This **script** is called in order to instantiate into persistent storage (if necessary) all records implied by the collection fieldpassed. Theprocessissimilartothatfor"\$InstantiatePersistentRefbutthescrpt \$DefaultValue(charPtr defaultvalue) This **script**/function allows the default value of a type field to be set. If the field is null. In the absence of a "\$DefaultValue" **script**, any "\$DefaultValue" annotation found will be passed to

TM-StringToBinary(delimiter--"n") which can be... ..within calls to TM-NewPtr, TKNewHdlo, or TM-Initmemo so type memory \$Addo This **script**/function is invoked to add a typed record to persistent storage (i.e, database(s UniqueEDO This **script** is called to assign (or obtain) the unique ID for a given record prior to addingupdating that record (by invoking \$Add) to the database. The purpose of this **script** it to examine the name field (and any other available fields) of the record to...is set up prior to any container specific adds and prior to making any \$MakeLink **script** (described below) calls.\$MakeLink(ET@CollectionHdI refCollection,ET-Offset reffilement,charPtr refField)This **script** is called after \$UniqueID and before \$Add when processing data in a collection for addition/update to persistent storage. The purpose of this **script** is to set up whatever cross-referencing fields or hidden linkage table entries are necessary...structure. If additional links are required (e.g., as implied by'echo' fields), however, this **script** would be used to set them up prior the \$Add being invoked for all Datums in the collection.

\$SetfieldValue(anonPtr \*newValue,long \*context,int32 entry) This **script** could called whenever the value of a field is altered. Normally setting a field value requires no169**script** in order to implement, however, if a **script** is specified, it will be called immediately prior to actually copying the new value over with the value of 'entry' set to true. This means that the **script** could change the 'newValue' contents (or even replace it with a alternate 'newValue'pointer) prior to the copy. After the copy is complete and if 'context' is non-zero, the **script** may be called again with 'entry' set to false which allows any context stored via... ..cleaned up (including restoring the original 'newValue' if appropriate). Because of this copying mechanism, \$SetfieldValue **scripts** would preferably not alter the field value in the collection, but rather the value that is found in'newValue'. This **script** is also a logical place to associate any user interface with the data ...automatically when the data is changed. \$Drag(Controffhandle

aControlH,EventRecord \*eventP,ET-DragRef \*dragRef) This **script** is called to start a drag. \$Drop(ControlHandle aControlH,ET-DragRef dragRef) This **script** is called to perform a drop. The options parameter will have bit-O set true...for constructing andhandling the drop action menu,\$ElementMatch(ET-Offset element,Boolean \*match) This **script** is called tocompare two elements to see if they refer to the same item...a match and false otherwise.

Annotations are arbitrarily formatted chunks of text (delimited as for **scripts** and element tags) that can be associated with fields or types in order to store infori-nation for later retrieval from code or **scripts**. The present invention utilized certain predefined annotations (listed below) although additional (or fewer) annotations may... ..necessarily currently defined by the envirom-nent itself) is passed to the \$GetCollection and

\$GetPersistentCollection **scripts** in order to specify the parameters to be used when building the collection. \$ ..itself) is used when creating persistent type storage. \$DefaultValue - See the description under the \$DefaultValue **script**. \$BitMask - This annotation may be used to define and then utilize bit masks associated with...for reference fieldsA function, hereinafter called TS-GeffieldScripto, could be provided which obtains the **script** associated with a

given field and action. If the **script** and action cannot be matched, NULL is ...returned result would be suitable for input to the function TS-DoFieldActionScript. Note that field **scripts** may be overridden locally to the process using TS-SetFieldScript. If this is the case, the 'isLocal' parameter (if specified) will be set true. Local override **scripts** that wish to execute the global **script** and modify the behavior may also obtain the global **script** using this function with 'globalDefnOnly' set TRUE, and execute it using TS-DoFieldActionScript. If the **script** return actually corresponds to an action procedure not a **script** then the **script** contents will simply contain an '=' character followed by ...will invoke the procedure. If the 'inherit' parameter is TRUE, upon failing to find a **script** specific to the specified field, this function will attempt to find a **script** of the same name associated with the enclosing type (see TM-GetTypeActionScript) or any of...of specific field where this is necessary. If the field is a reference field, a **script** is only invoked if it is directly applied to the field itself, all other **script** inheritance is suppressed. In the preferred embodiment, the following options would be supported: kNoInheritance dont... kGlobalDefnOnly only obtain global definition, ignore local overrides The search order when looking for field **scripts** is as follows: 1) Look for a field **script** associated with the field itself. 172) If 'inherit' is TRUE: ...upwards - 2, 1 in the example above): a) If there is an explicit matching field **script** (no-inheritance) associated with that field, use it b) If the field is a 'reference' field (i.e., \*, \*\*, @, @@, or #), search the referred to type for a matching type **script** Q Search the enclosing type ('aTypeell') for a matching type **script**. A function, hereinafter called TS-SetTypeScript, could be provided which adds, removes, to or replaces the existing "on" condition action code within an existing type **script**. For example, this routine could be used to add additional behaviors to or modify existing behaviors of a type. In the preferred embodiment, if the 'kLocalDefnOnly' option is set, the new action **script** definition applies within the scope of the current process but does not in any way modify the global definition of the type **script**. The ability to locally override a type action **script** is very useful in modifying the behavior of certain portions of the UI associated with invoke when the **script** is triggered, rather than a type manager **script**. This approach allows arbitrary code functionality to be tied to types and type fields. While the use of **scripts** is more visible and flexible, for certain specialized behaviors, the use of procedures is more... which adds, removes, or replaces the existing "on" condition action code within an existing field **script**. For example, this routine may be used to add additional behaviors to or modify existing behaviors of a type field. If the 'kLocalDefnOnly' option is set, the new action **script** definition applies within the scope of the current process, it does not in any way modify the global definition of the field's **script**. As explained above, this ability to locally override a field action **script** is very useful in modifying the behavior of certain portions of the UI associated with... If the 1kProcNotScriptV option is set, 'aScript' is taken to be the name of a **script** function to invoke when the **script** is triggered, rather than an actual type manager **script**. This allows arbitrary code functionality to be tied to types and type fields. **Script** functions can be registered using TS-RegisterScriptFno. 173 A function, hereinafter called TS-GetTypeScript, could be provided which obtains the **script** associated with a given type and action. If the type and action cannot be matched... suitable for input to the function TS-DoTypeActionScript(. Note that in the preferred embodiment type **scripts** may be overridden locally to the process using TS-SetTypeScript. If this is the case, the 'isLocal' parameter (if specified) will be set true. Local override **scripts** that wish to execute the global **script** and modify the behavior somehow can obtain the global **script** using this function with 1GlobalDefnOnly' option set, and execute it using TS-DoTypeActionScript(. If the **script** return actually corresponds to an action procedure not a **script** then the **script** contents will simply contain an '=' character followed by a single hex number which is the... invoke the procedure. If the 'kNoInheritance' option is not set, upon failing to find a **script** specific to the type, this function will attempt to find a **script** of the same name associated with the enclosing type or any of its ancestors. Using... A function, hereinafter called TS-InvokeScript, could be provided which invokes the specified field action **script** or **script** function. Note that because the 'fieldScript' parameter is explicitly passed to this function, it is possible to execute arbitrary **scripts** on a field even if those **scripts** are not the **script** actually associated with the field (as returned by TS-GetFieldScript). This capability makes the full power of the type

**scripting** language available to program code whilst allowing arbitrary **script** or **script** function extensions as desired. Unlike most field related functions in this API, this function does... ..sprintf( type field expansion because the variable arguments are used to pass parameters to the **scripts**. When invoking a type action **script** without knowledge of the field involved, the' ...function TS Re2isterScriptffno, could also be provided which could be used to to register a **script** function symbolically so that it can be invoked if encountered within a field or type **script**. In the preferred embodiment, when TS-InvokeFieldActionScript( encounters a **script** beginning with an '=' character and of the 174 form "= **scriptFnName**" where "**scriptFnName**" has been registered previously using this procedure, it resolves "**scriptFnName**" to obtain the actual function address and then invokes the function. The foregoing description of...and layout. 178d) Extensions to the C\* language to allow specification and inheritance of **scriptable** actions on a per-field and per-type basis. Similar extensions to allow arbitrary annotations...data within a standardized flat memory model and for associating inheritable executable and/or interpreted **script** actions with any and all types and fields within such data. In the preferred embodiment...data within a standardized flat memory model and for associating inheritable executable and/or interpreted **script** actions with any and all types and fields within such data. In the preferred embodiment...nature of the approach) in order to provide basic support for the items described herein: **script** used to associate a **script** with a type or field annotation used to associate an annotation with a type or field @ relative reference designator (like '\*' for a pointer) @@ collection reference designator persistent reference designator <on> <no> <script and annotation block start delimiter> <script and annotation block end delimiter> <echo field specification operator type inheritance> Additionally, the syntax for... utilized in the preferred embodiment. All translation of the syntax discussed herein occurs via registered **script** functions (as discussed further in the Collections Patent) and ...persistent reference resulting from mining a datum from an external source (invoked via the \$UniqueID **script** as further described in the Collections Patent) deserves further examination since it is highly dependant... ..such real-world quirks. In the simple federation described above, the implementation of the \$UniqueID **script** for Datum (from which all other types will by default inherit) might be similar to that given below: static EngErr PTS-AssignUniqueID( \$UniqueID **script** registered with Datum ET-Type DBHdl aTypeDBHdl, I:Type DB handle (NULL to default) ET-TypeID... ..I:Type ID charPtr fieldName, I:Field name/path (else NULL) charPtr action, I:The **script** action being invoked charPtr **script**, I:The **script** text anoaPtr dataPtr, I:Type data pointer ET-CollectionHdl aCollection, // I:The collection handle ET... towns with the same within any given country). In this case, a more specific \$UniqueID **script** could be registered with the type Place (the ancestral type of all places such as UniqueID **script** registered with Place ET-Type DBHdl aTypeDBHdl, I:Type DB handle (NULL to default) ET-TypeID... ..I:Type ID charPtr fieldName, I:Field name/path (else NULL) charPtr action, I:The **script** action being invoked charPtr **script**, I:The **script** text anonPtr dataPtr, I:Type data pointer ET CollectionHdl aCollection, // I:The collection handle ET...an ontology via the C\* specifications. The final step is to implement any ontology-specific **scripts** and

1/3K/47 (Item 20 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01035173

**A SYSTEM AND METHOD FOR PARSING DATA  
SYSTEME ET PROCEDE D'ANALYSE DE DONNEES**

**Patent Applicant/Inventor:**

- **FAIRWEATHER John**  
1649 Wellesley Drive, Santa Monica, CA 90405; US; US(Residence); US(Nationality);

**Legal Representative:**

- **THIESSEN Kendall I(et al)(agent)**  
Gibson, Dunn & Crutcher LLP, 1801 California Street, Suite 4100, Denver, CO 80202; US;

	Country	Number	Kind	Date
Patent	WO	200365212	A1	20030807
Application	WO	2003US3068		20030203
Priorities	US	2002353487		20020201

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PT; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 19606

**Detailed Description:**

...streams of tokens according to a language definition  
specified via a meta-language such as **Backus-Naur Form (BNF)**, and a code  
generator/interpreter. The creation of compilers is conventionally a lengthy...of specifying a grammar as illustrated  
in Figure 1 is a custom variant of the **Backus-Naur Form (or BNF)**. It is the oldest and easiest to understand means

of describing a...may vary between languages to be recognized. This is particularly true if a non-Roman **script** system is ...for in-depth analysis. High performance text search applications can also be used on foreign **scripts** by using one or more character encoding systems, such as those developed by Unicode and...

**Claims:**

- ...1, wherein the operation of the predictive parser is specified via a modified form of **Backus-Naur format (BNF)**.
- 3) The system of claim 2, wherein the predictive parser includes support for...

1/3K/48 (Item 21 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01008619

**STRUCTURES AND METHODS FOR MANAGING SOFTWARE AND DOCUMENTATION**  
**STRUCTURES ET PROCEDES DE GESTION DE LOGICIEL ET DE DOCUMENTATION**

**Patent Applicant/Patent Assignee:**

- **METACYBER NET**; 650 Saratoga Avenue, Suite 206, San Jose, CA 95129  
US; US(Residence); US(Nationality)

**Legal Representative:**

- **GUNNISON Forrest(et al)(agent)**  
Gunnison, McKay & Hodgson, L.L.P., 1900 Garden Road, Suite 220, Monterey, CA 93940; US;

	Country	Number	Kind	Date
Patent	WO	200338607	A1	20030508
Application	WO	2002US31600		20021024
Priorities	US	2001335250		20011031
	US	2002147694		20020517
	US	2002147722		20020517
	US	2002147846		20020517
	US	2002147836		20020517
	US	2002150803		20020517
	US	2002147714		20020517
	US	2002147691		20020517
	US	2002147848		20020517
	US	2002147814		20020517
	US	2002147787		20020517

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;  
SE; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 80288

**Detailed Description:**

...Java or Perl) and  
a derivative of a very-high-order metalanguage known as  
BNF (**B**ackus-**N**aur Form), which is used to create parser  
metaprogram 212B. BNF is a simple rule-based...the target symbols 2902 and 3001  
respectively. Fig. 31 is an example of dynamic HTML  
**scripting** to achieve this affect. Fig. 31 shows the  
alternate HTML source of sidebar menu 2302A...in tag HEAD of frame  
CODE, passing function turnON the anchor name object.

TABLE 5

```
<script LANGUAGE = "JavaScript"> var lastChoice  
function turnON(obj)  
var curLnk document.getElementById(obj);  
if (lastChoice == curLnk) return;  
else if (lastChoice) lastChoice.className "off";  
curLnk.className = "on";  
LastChoice = curLnk;  
</script >
```

Function turnON gets the document reference to the  
anchor using document method getElementById, and  
assigns...name is  
"smatrix 4".

In another embodiment, a popup sub-window is  
displayed by a **script** language function invoked by the  
onMouseOver event. The popup sub-window may contain  
further anchor...

1/3K/49 (Item 22 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

01004292

**SYSTEM AND METHOD OF IMPROVED RECORDING OF MEDICAL TRANSACTIONS**  
**SYSTEME ET PROCEDE D'ENREGISTREMENT AMELIORE DES TRANSACTIONS MEDICALES**

**Patent Applicant/Inventor:**

- **OON Yeong Kuang**  
29 Darryl Street, Scoresby, VIC 3179; AU; AU(Residence); AU(Nationality);

**Legal Representative:**

- **ALLENS ARTHUR ROBINSON PATENT & TRADE MARKS ATTORNEYS(agent)**  
Stock Exchange Centre, 530 Collins Street, Melbourne, VIC 3000; AU;

	Country	Number	Kind	Date
Patent	WO	200334274	A1	20030424
Application	WO	2002AU1422		20021018
Priorities	AU	20018354		20011018
	AU	20019225		20011130
	AU	20021767		20020417
	AU	20022844		20020607
	AU	2002951382		20020905

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;  
SE; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 16693



### **Detailed Description:**

...branch of grammar dealing with the way words are put together to make wellformed sentences.

**Script** - a text base for communicating structure and commands for machines.

Detailed description of the invention

The applicant and inventor of the present application has previously developed a medical **scripting** language referred to generally as 'DocleScript', and described in applications WO 97/48059, WO 98...for both patient data and clinical knowledge bases.

The language definition is based on Extended **Backus Naur** Formalism (EBNF is discussed in 'Programming in Modula 2' by Niklaus Wirth, Springer-Verlag, 1982...two and its use with accrual transactions.

This language definition is also based on Extended **Backus Naur** Formalism (EBNF - see above).

The EBNF Syntax rules are defined as.

Syntax = { rule }.

rule = identifier...

### **Claims:**

...semiotic form three input into a semiotic form four transaction by marking up with a **scripting** language such as XML or SGML, in order to facilitate electronic sharing of medical data...

1/3K/50 (Item 23 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00978115

**METHOD FOR COMPRESSING PROTOCOLS AND RELATED SYSTEM**

**PROCEDE PERMETTANT DE COMPRESSER DES PROTOCOLES ET SYSTEME ASSOCIE**

**Patent Applicant/Patent Assignee:**

- **ROKE MANOR RESEARCH LIMITED**; Roke Manor, Old Salisbury Lane, Rosmey, Hants SO51 0ZN  
GB; GB(Residence); GB(Nationality)  
(For all designated states except: US)
- **PRICE Richard**; 20 Knatchbull Close, Romsey, Hampshire SO51 8WJ  
GB; GB(Residence); GB(Nationality)  
(Designated only for: US)

**Patent Applicant/Inventor:**

- **PRICE Richard**  
20 Knatchbull Close, Romsey, Hampshire SO51 8WJ; GB; GB(Residence); GB(Nationality); (Designated only for: US)

**Legal Representative:**

- **ALLEN Derek(et al)(agent)**  
Siemens Shared Services Limited, Intellectual Property Department, Siemens House, Oldbury, Bracknell, Berkshire RG12 8FZ; GB;

	Country	Number	Kind	Date
Patent	WO	200307572	A1	20030123
Application	WO	2002EP7876		20020715
Priorities	GB	200117132		20010713
	GB	200125866		20011029

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;  
SE; SK; TR;

Publication Language: English

Filing Language: English

Fulltext word count: 4849

**English Abstract:**

...the received data. The invention has particular application to where the protocol fields is in **Backus Naur** form.

#### **French Abstract:**

...recues. L'invention trouve une application particuliere lorsque les champs protocole sont sous la forme **Backus Naur**.

#### **Detailed Description:**

...which varying protocol information is sent. It has particular, but not exclusive, application to BNF (**Backus Naur Form**) which is a standard language used to describe new protocols and signalling schemes.

In...SIP [RFC-2543] and RTSP [RFC-2326]. The algorithm preferably incorporates in its input a **Backus Naur Form** (BNF) description of the protocol to be compressed, which is stored at the compressor...a Hu method.

The protocol may be in any suitable form, but is preferably in **Backus Naur** form. An advantage with this is that the invention is able to make use of... ..INVENTION

The invention will now be 'described with reference to examples. A brief description of (**Backus Naur Form**) BNF, as a language, is included to assist the understanding of the examples. , BNF (**Backus Naur Form**) is a language used to describe the behaviour of many well-known protocols. ...2543].

The basic idea of the BNF-based compression algorithm is to provide a BNF (**Backus Naur Form**) description of the relevant protocol at the compressor and decompressor.

At the decompressor this...richard" where "I" denotes the option "or"; and the optional data is highlighted in bold **script**.

Note the first line is the all-defining line of the protocol. In BNF the...

#### **Claims:**

...method.

4 A method as claimed in any preceding claim wherein said protocol is in **Backus Naur** form.

5 A communication system comprising:

CONFIRMATION COPYa) means for pre-storing predictable data ...S. A communications system as claimed in any preceding claim wherein said protocol is in **Backus Naur** form.

9 A Programable Integrated Circuit (PIC), for use in the system of any of...

1/3K/51 (Item 24 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00973347

**PATTERN CROSS-MATCHING**

MISE EN CORRESPONDANCE CROISEE DE MOTIFS

**Patent Applicant/Patent Assignee:**

- **VOX GENERATION LIMITED**; Golden Cross House, 8 Duncannon Street, London WC2N 4JF  
GB; GB(Residence); GB(Nationality)  
(For all designated states except: US)
- **HOROWITZ David**; 3 Hyde Park Place, London W2 2LR  
GB; GB(Residence); GB(Nationality)  
(Designated only for: US)
- **PHELAN Peter**; 4 Grove Place, London SW12 9LL  
GB; GB(Residence); GB(Nationality)  
(Designated only for: US)
- **ROBINSON Kerry**; 30 Park Crescent, Elstree, Hertfordshire WD6 9PU  
GB; GB(Residence); GB(Nationality)  
(Designated only for: US)

**Patent Applicant/Inventor:**

- **HOROWITZ David**  
3 Hyde Park Place, London W2 2LR; GB; GB(Residence); GB(Nationality); (Designated only for: US)
- **PHELAN Peter**  
4 Grove Place, London SW12 9LL; GB; GB(Residence); GB(Nationality); (Designated only for: US)
- **ROBINSON Kerry**  
30 Park Crescent, Elstree, Hertfordshire WD6 9PU; GB; GB(Residence); GB(Nationality); (Designated only for: US)

**Legal Representative:**

- **POTTER Julian Mark(agent)**  
D. Young & Co, 21 New Fetter Lane, London EC4A 1DA; GB;

	Country	Number	Kind	Date
Patent	WO	200303347	A1	20030109
Application	WO	2002GB3013		20020628
Priorities	GB	200115872		20010628

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;

GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 22818

**Detailed Description:**

...stored as

data in a database rather than written in time consuming ASR/TTS specific **scripts**. As a result, multiple languages can be readily supported with greatly reduced development time, a...to laboriously code likely occurring user responses in a cumbersome grammar (e. g. BNF grammar - **Backus Naur** Format) resulting in time consuming detailed syntactic specification, the development suite provides an intuitive hierarchical ...

1/3K/52 (Item 25 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00969864

**SYSTEM AND METHOD FOR PROVIDING FEATURE-BASED DEVICE DESCRIPTION AND CONTENT ANNOTATION**

**SYSTEME ET PROCEDE DE DEFINITION DE DISPOSITIF SUR LA BASE DE CARACTERISTIQUES ET D'ANNOTATION DE CONTENUS**

**Patent Applicant/Patent Assignee:**

- **NOKIA CORPORATION**; Keilalahdentie  
4, FIN-02150 Espoo; FI; FI(Residence)  
FI(Nationality)
- **NOKIA INC**; 6000 Connection Drive, Irving, TX 75039  
US; US(Residence); US(Nationality)  
(Designated only for: LC)

**Legal Representative:**

- **WRIGHT Bradley C(agent)**  
Banner & Witcoff, Ltd., 1001 G Street, N.W., Eleventh Floor, Washington, DC 20001-4597; US;

	Country	Number	Kind	Date
Patent	WO	2002103963	A1	20021227
Application	WO	2002IB2098		20020606
Priorities	US	2001881597		20010614

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 12455

**Detailed Description:**

...and content generated by a dynamic content generation mechanism, such as Common Gateway Interface (CGI) **scripts**, JAVA Servlets, Active Server Pages (ASP), Java Server Pages (JSP), or other means available in...explained below. In order to prescribe the values of each attribute and content, the Extended **Backus-Naur** Form is utilized. As can be appreciated by one skilled in the art, the notation ...



1/3K/53 (Item 26 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00944762

**PDSTUDIO DESIGN SYSTEM AND METHOD**

SYSTEME ET PROCEDE DE CONCEPTION D'UN ATELIER DE DEVELOPPEUR DE POLITIQUE DE SECURITE

**Patent Applicant/Patent Assignee:**

- **SECURIFY INC**; 1157 San Antonio Road, Mountain View, CA 94043  
US; US(Residence); US(Nationality)

**Legal Representative:**

- **GLENN Michael(et al)(agent)**  
Glenn Patent Group, Suite L., 3475 Edison Way, Menlo Park, CA 94025; US;

	Country	Number	Kind	Date
Patent	WO	200278240	A2-A3	20021003
Application	WO	2002US9207		20020322
Priorities	US	2001278557		20010323
	US	2002105775		20020321

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 33902

**Detailed Description:**

...June 1997) discloses a generalized-event monitoring notation that permits user-specified filtering and composition

**scripts** to be dynamically loaded into distributed-event monitoring components. GEM uses "scheduled time events and...a network link over which the intruder's traffic transits. The system comprises a "policy **script** interpreter" that interprets event handlers written in a specialized language used to express a site...108 is provided herein below in Table C.

Table C

5 This table contains a **Backus- Naur** Form (BNF) description of the grammar for the policy specification language, including an annotation section...

1/3K/54 (Item 27 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00923897

**METHOD AND DEVICE FOR MONITORING DATA TRAFFIC AND PREVENTING UNAUTHORIZED ACCESS TO A NETWORK**

**PROCEDE ET DISPOSITIF DE SURVEILLANCE DE TRAFIC DE DONNEES ET DE PREVENTION D'ACCES NON AUTORISE A UN RESEAU**

**Patent Applicant/Patent Assignee:**

- **CAPTUS NETWORKS CORPORATION**; Suite B, 1680 Tide Court, Woodland, CA 95776  
US; US(Residence); US(Nationality)  
(For all designated states except: US)
- **ONTIVEROS Mark**; 151 Stone Way, Woodland, CA 95695  
US; US(Residence); US(Nationality)  
(Designated only for: US)
- **NADLER Michael H**; 1000 Fourth Avenue, Sacramento, CA 95818  
US; US(Residence); US(Nationality)  
(Designated only for: US)
- **SHANKLIN Carter**; 22 West Elliot Street #38, Woodland, CA 95695  
US; US(Residence); US(Nationality)  
(Designated only for: US)

**Patent Applicant/Inventor:**

- **ONTIVEROS Mark**  
151 Stone Way, Woodland, CA 95695; US; US(Residence); US(Nationality); (Designated only for: US)
- **NADLER Michael H**  
1000 Fourth Avenue, Sacramento, CA 95818; US; US(Residence); US(Nationality); (Designated only for: US)
- **SHANKLIN Carter**  
22 West Elliot Street #38, Woodland, CA 95695; US; US(Residence); US(Nationality); (Designated only for: US)

**Legal Representative:**

- **SMITH William P(et al)(agent)**  
DKW Law Group, PC, 58 th Floor, USX Tower, 600 Grant Street, Pittsburgh, PA 15219; US;

	Country	Number	Kind	Date
Patent	WO	200257935	A1	20020725
Application	WO	2002US1065		20020114
Priorities	US	2001761499		20010116
	US	2001844794		20010427

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 10887

**Detailed Description:**

...rule association are permitted using a Radix decisional tree structure.

In addition to the configuration **script** described above wherein certain parameters (e.g., threshold hit values and time intervals) are selected...15 k/s then send alert then for 10m deny traffic.

The rule set in **Backus-Naur** form (BNF) is provided below.

rule = 'if data' track threshold responses I 'ads is on ...

1/3K/55 (Item 28 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00905566

**PRESENCE WITH SPATIAL LOCATION INFORMATION**

PRESENCE AVEC INFORMATIONS DE LOCALISATION DANS L'ESPACE

**Patent Applicant/Patent Assignee:**

- **NOKIA CORPORATION**; Keilalahdentie 4, FIN-02150 Espoo  
FI; FI(Residence); FI(Nationality)
- **NOKIA INC**; 6000 Connection Drive, Irving, TX 75039  
US; US(Residence); US(Nationality)  
(Designated only for: LC)

**Legal Representative:**

- **MAGUIRE Francis J(agent)**  
Ware, Fressola, Van Der Sluys & Adolphson LLP, 755 Main Street, P.O. Box 224, Monroe, CT 06468; US;

	Country	Number	Kind	Date
Patent	WO	200239692	A2-A3	20020516
Application	WO	2001IB2068		20011105
Priorities	US	2000246779		20001108

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;  
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 16914

**Detailed Description:**

...description following a specific format such as the Session Description Protocol (SDP), text or XML scripts. The

"Content-Type" header field gives the media type of the message body. If the...1998, by T. Berners-Lee et al. and 5 the syntax is described using Augmented **Backus-Naur** form, using characters reserved within any given URI component.

The SIP URL is used for...

1/3K/56 (Item 29 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00897936

**MESSAGE PROCESSING**

**TRAITEMENT DE MESSAGE**

**Patent Applicant/Patent Assignee:**

- **TELSTRA NEW WAVE PTY LTD**; 242 Exhibition Street, MELBOURNE, Victoria 3000  
AU; AU(Residence); AU(Nationality)  
(For all designated states except: US)
- **LAW Eng Boon**; 4/590 Riversdale Road, CAMBERWELL, Victoria 3124  
AU; AU(Residence); MY(Nationality)  
(Designated only for: US)
- **SCHEBELLA Callan Douglas**; 539 Camberwell Road, CAMBERWELL, Victoria 3124  
AU; AU(Residence); AU(Nationality)  
(Designated only for: US)
- **SOH Kam-Hung**; 25 Hargreaves Street, HUNTINGDALE, Victoria 3166  
AU; AU(Residence); AU(Nationality)  
(Designated only for: US)

**Patent Applicant/Inventor:**

- **LAW Eng Boon**  
4/590 Riversdale Road, CAMBERWELL, Victoria 3124; AU; AU(Residence); MY(Nationality); (Designated only for: US)
- **SCHEBELLA Callan Douglas**  
539 Camberwell Road, CAMBERWELL, Victoria 3124; AU; AU(Residence); AU(Nationality); (Designated only for: US)
- **SOH Kam-Hung**  
25 Hargreaves Street, HUNTINGDALE, Victoria 3166; AU; AU(Residence); AU(Nationality); (Designated only for: US)

**Legal Representative:**

- **WEBBER David Brian(et al)(agent)**  
Davies Collison Cave, 1 Little Collins Street, MELBOURNE, Victoria 3000; AU;

	Country	Number	Kind	Date
Patent	WO	200232171	A1	20020418
Application	WO	2001AU1201		20011009
Priorities	AU	2000625		20001009

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 3468

**Detailed Description:**

...web server software, such as 1 5 Microsoft IIS, that is able to execute program **scripts** and serve HTML pages over the Internet 6. The gateway 7 is a standard SMS...SMS message.

The MDS data format may be described in a notation system based on **Backus-Naur Form**.

In this notation system.

- (a) -text within angled brackets (<>) denotes a symbol;
- (b) symbols...



1/3K/57 (Item 30 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00891329

## **EVENT BUS ARCHITECTURE**

### **ARCHITECTURE DE BUS D'EVENEMENTS**

#### **Patent Applicant/Patent Assignee:**

- **OPENDESIGN INC**; 12721 Bel-Red Road, Suite 100, Bellevue, WA 98005  
US; US(Residence); US(Nationality)  
(For all designated states except: US)
- **JUNG Edward**; 13420 NE 36th Street, Bellevue, WA 98005-1403  
US; US(Residence); US(Nationality)  
(Designated only for: US)
- **BUTCHER Tom**; 421 Bellevue Avenue E. #601, Seattle, WA 98102  
US; US(Residence); US(Nationality)  
(Designated only for: US)
- **KHOURY Sami**; 421 Bellevue Avenue E. #205, Seattle, WA 98102  
US; US(Residence); US(Nationality)  
(Designated only for: US)
- **KATARIYA Sanjeev**; 10107 NE 66th Lane, Kirkland, WA 98033  
US; US(Residence); US(Nationality)  
(Designated only for: US)
- **KYNE Fajen**; 918 E. Lynn, Seattle, WA 98102  
US; US(Residence); US(Nationality)  
(Designated only for: US)
- **BEARMAN Rob**; 19618 SE 15th Place, SAMmamish, WA 98029  
US; US(Residence); US(Nationality)  
(Designated only for: US)
- **BUSH Steve**; 8605 217th Avenue NE, Redmond, WA 98053  
US; US(Residence); US(Nationality)  
(Designated only for: US)

#### **Patent Applicant/Inventor:**

- **JUNG Edward**  
13420 NE 36th Street, Bellevue, WA 98005-1403; US; US(Residence); US(Nationality); (Designated only for: US)
- **BUTCHER Tom**  
421 Bellevue Avenue E. #601, Seattle, WA 98102; US; US(Residence); US(Nationality); (Designated only for: US)
- **KHOURY Sami**  
421 Bellevue Avenue E. #205, Seattle, WA 98102; US; US(Residence); US(Nationality); (Designated only for: US)

- **KATARIYA Sanjeev**  
10107 NE 66th Lane, Kirkland, WA 98033; US; US(Residence); US(Nationality); (Designated only for: US)
- **KYNE Fajen**  
918 E. Lynn, Seattle, WA 98102; US; US(Residence); US(Nationality); (Designated only for: US)
- **BEARMAN Rob**  
19618 SE 15th Place, SAMmamish, WA 98029; US; US(Residence); US(Nationality); (Designated only for: US)
- **BUSH Steve**  
8605 217th Avenue NE, Redmond, WA 98053; US; US(Residence); US(Nationality); (Designated only for: US)

**Legal Representative:**

- **PIRIO Maurice J(agent)**  
Perkins Coie LLP, P.O. Box 1247, Seattle, WA 98111-1247; US;

	Country	Number	Kind	Date
Patent	WO	200225440	A2-A3	20020328
Application	WO	2001US22971		20010719
Priorities	US	2000219304		20000719

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English  
Filing Language: English  
Fulltext word count: 19120

**Detailed Description:**

...web pages, instructions for overriding the behavior of existing web pages, commands for controlling existing **scriptable** applications, policy, configuration, management and routing rules. In certain cases an application writer can provide...adapter may take many forms: web pages can include an adapter as part of their **scripts** , a Visual Basic application can implement adapter code directly, ASP pages can include adapters, and... ..languages like

CIC++, Java, and Visual Basic, macro languages like Visual Basic for Applications, and **script** languages like PERIL, JavaScript, and VBScript.

### 3.2 Basic adapter facilities

This piece of code illustrates a very simple hypothetical adapter written in JavaScript. The **script** itself is hosted within an HTML file.

```
<HTML><HEAD><SCRIPT>
var adapter;
function CreateAdaptero
adapter = new ActivexObject(IloDi.AdptProx");
adapter.Register("(CD24FC5C-5C36-4b9d-B 098-F41FO227CCEE)"f
"JavaScript Adapter");
function DestroyAdaptero
adapter.Unregistero;
adapter = 0;
</SCRIPT >
</HEAD>
<BODY onLoad=11CreateAdapter0;11
onUnload="DestroyAdaptero,"></BODY>
</HTML>
```

This adapter creates itself whenever the...an example of how this can be done in the sample web page.

```
<HTML><HEAD><SCRIPT>
var adapter;
var myListeners = new MessageListeners();
function CreateAdaptero
adapter = new ActiveXObject("odi.AdptProx");
adapter.Register... ..hi');
function addSomeText(text)
document.writeln(text);
function MessageListenerso
this.sayHello = sayHello;
this.addSomeText = addSomeText;
</SCRIPT>
</HEAD>
<BODY onLoad="CreateAdapter0;"
onUnload="DestroyAdaptero;"></BODY>
& lt;/HTML>
```

When this adapter registers, the kernel can... ..3 Module messages  
Some adapters might allow messages to generate new messages. For  
example, a **script** host adapter may expose an activation method called  
SendMessage.

```
function SendMessage(type)
adapter.SendMessage(type...an HRESULT. This is familiar for C++
Windows COM developers, but not for VB or script developers. With VB or
```

**script**, a non-success HRESULT results in a run-time exception can be trapped with try... ..retval] parameters. These parameters will be the return value of the call from VB or **script**. Some parameters are listed as [optional]. This means that the parameters may be omitted from... ..parameters will have the default value listed within the parentheses in the call. Last, in **script** and VB, most of the time variables are a VARIANT type. This means that the...the unit of programmability for the platform.

This section is organized as follows. First, the **Backus-Naur Form** (BNF) of the grammar of the language is described. Next, exceptions to and clarifications...

1/3K/58 (Item 31 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00866340

**EFFICIENT EVALUATION OF RULES**

**EVALUATION EFFICACE DE REGLES**

**Patent Applicant/Patent Assignee:**

- **SECURIFY INC;** 1157 San Antonio Road, Mountain View, CA 94043  
US; US(Residence); US(Nationality)

**Legal Representative:**

- **GLENN Michael(et al)(agent)**  
Glenn Patent Group, Ste. L., 3475 Edison Way, Menlo Park, CA 94025; US;

	Country	Number	Kind	Date
Patent	WO	200199372	A2-A3	20011227
Application	WO	2001US19332		20010615
Priorities	US	2000212126		20000616
	US	2001826602		20010405
	US	2001878093		20010608

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;  
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 48533

**Detailed Description:**

...June 1997) discloses a generalized-event monitoring notation that permits user-specified filtering and composition

**scripts** to be dynamically loaded into distributed-event monitoring components. GEM uses "scheduled time events and...a network link over which the intruder's traffic transits. The system comprises a 'policy **script** interpreter" that interprets event handlers written in a specialized language used to express a site...be mined with a query tool 135. (inverted exclamation mark)t also comprises a report **script** component 160 for querying the database 104 and creating reports 161, and an alarm **script** component 155, for generating alarms based on the severity of the disposition assigned to network... ..164 and a report database 165 that hosts the reports 161 generated using the report **script** 160. The Web server feature 162 is optional.

2 7

An equally preferred embodiment of...to the logging module 103.

The preferred embodiment of the invention also provides an alarm **script** 155.

As the policy engine module 102 reaches dispositions on network events of a

7 0

certain disposition severity, for example, CRITICAL or HIGH, the alarm **script** is invoked to provide expedited alerting of the disposition.

The following algorithm is used to... ..accessible server 162. The preferred embodiment of the invention uses the following algorithm.

A report **script** 160 described is used to generate a report 161 for the configured or predetermined time... ..been generated, access the protocol event data stored in the database 165 via a **cgi script**.

Table J

a Generate network events in subsidiary web files, based on execution run;  
Generate...provided herein below in Table U.

Table u

1 9 0

This table contains a **Backus-Naur** Form (BNF) description of the grammar for the policy specification language, including an annotation section...

1/3K/59 (Item 32 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00866339

**CREDENTIAL/CONDITION ASSERTION VERIFICATION OPTIMIZATION**

**OPTIMISATION DE LA VERIFICATION D'ASSERTIONS D'ACCREDITIFS ET DE CONDITIONS**

**Patent Applicant/Patent Assignee:**

- **SECURIFY INC;** 1157 San Antonio Road, Mountain View, CA 94043  
US; US(Residence); US(Nationality)

**Legal Representative:**

- **GLENN Michael(et al)(agent)**  
Glenn Patent Group, 3475 Edison Way, Ste. L., Menlo Park, CA 94025; US;

	Country	Number	Kind	Date
Patent	WO	200199371	A2-A3	20011227
Application	WO	2001US19331		20010615
Priorities	US	2000212126		20000616
	US	2001826602		20010405
	US	2001882570		20010614

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;  
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 49201

**Detailed Description:**

...June 1997) diselosos a generalized-event monitoring notation that permits user-specified filtering and composition

**scripts** to be dynamically loaded into distributed-event monitoring components. GEM uses scheduled time events and...a network link over which the intruder's traffic transits. The system comprises a "policy **script** interpreterC that interprets event handlers written in a specialized language used to express a site...be mined with a query tool 135. (inverted exclamation mark)t also comprises a report **script** component 160 for querying the database 104 and creating reports 161 , and an alarm **script** component 155, for generating alarms based on the severity of the disposition assigned to network...164 and a report database 165 that hosts the reports 161 generated using the report **script** 160. The Web server feature 162 is optional.

An equally preferred embodiment of the invention...to the logging module 103.

The preferred embodiment of the invention also provides an alarm **script** 155.

As the policy engine module 102 reaches dispositions on network events of a 7 0

certain disposition severity, for example, CRITICAL or HIGH, the alarm **script** is invoked to provide expedited alerting of the disposition.

The following algorithm is used to... accessible server 162. The preferred embodiment of the invention uses the following algorithm.

A report **script** 160 described is used to generate a report 161 for the configured or predetermined time...the protocol event data stored in the database 165 via a cg(inverted exclamation mark) **script**.

#### Table J

Generate network events in subsidiary web files, based on execution run;  
Generate network... language 108 is provided herein below in Table U.

#### Table U

This table contains a **Backus-Naur** Form (BNF) description of the grammar for the policy specification language, including an annotation section...



1/3K/60 (Item 33 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00866264

**AUTOMATED GENERATION OF AN ENGLISH LANGUAGE REPRESENTATION OF A FORMAL NETWORK SECURITY POLICY SPECIFICATION**

GENERATION AUTOMATIQUE D'UNE REPRESENTATION EN LANGUE ANGLAISE DE SPECIFICATIONS FORMELLES DE POLICE DE SECURITE DE RESEAU

**Patent Applicant/Patent Assignee:**

- **SECURIFY INC**; 1157 San Antonio Road, Mountain View, CA 94043  
US; US(Residence); US(Nationality)

**Legal Representative:**

- **GLENN Michael(et al)(agent)**  
Glenn Patent Group, Suite L., 3475 Edison Way, Menlo Park, CA 94025; US;

	Country	Number	Kind	Date
Patent	WO	200198932	A2-A3	20011227
Application	WO	2001US19259		20010615
Priorities	US	2000212126		20000616
	US	2001826602		20010405
	US	2001878098		20010608

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;  
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 49359

**Detailed Description:**

...June 1997) discloses a generalized-event monitoring notation that permits user-specified filtering and composition **scripts** to be dynamically loaded into distributed-event monitoring components. GEM uses "scheduled time events and...a network link over which the intruder's traffic transits. The system comprises a "policy **script** interpreterC that interprets event handlers written in a specialized language used to express a site...be mined with a query tool 135. (inverted exclamation mark)t also comprises a report **script** component 160 for querying the database 104 and creating reports 161 , and an alarm **script** component 155, for generating alarms based on the severity of the disposition assigned to network... ..164 and a report database 165 that hosts the reports 161 generated using the report **script** 160. The Web server feature 162 is optional.

An equally preferred embodiment of the invention...to the logging module 103.

The preferred embodiment of the invention also provides an alarm **script** 155.

As the policy engine module 102 reaches dispositions on network events of a 1 0 certain disposition severity, for example, CRITICAL or HIGH, the alarm **script** is invoked to provide expedited alerting of the disposition.

The following algorithm is used to... ..accessible server 162. The preferred embodiment of the invention uses the following algorithm.

A report **script** 160 described is used to generate a report 161 for the configured or predetermined time... ..been generated, access the protocol event data stored in the database 165 via a **cgi script**.

#### Table J

Generate network events in subsidiary web files, based on execution run;  
o Generate...provided herein below in Table U.

#### Table U

1 9 0

This table contains a **Backus-Naur** Form (BNF) description of the grammar for the policy specification language, including an annotation section...

1/3K/61 (Item 34 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00851700

**MODELING SYSTEM**

**SYSTEME DE MODELISATION**

**Patent Applicant/Patent Assignee:**

- **SIGHT CODE INC**; 27A Mica Lane, Wellesley, MA 02481-1707  
US; US(Residence); US(Nationality)

**Legal Representative:**

- **ARNOLD Beth E(et al)(agent)**  
Patent Group, Foley Hoag LLP, 155 Seaport Boulevard, Boston, MA 02210-2698; US;

	Country	Number	Kind	Date
Patent	WO	200184354	A2-A3	20011108
Application	WO	2001US14529		20010504
Priorities	US	2000201860		20000504
	US	2001808781		20010315

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;  
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 14862

**Detailed Description:**

...all such elements, their usage, and meanings.

As shown, FIGs. 1-20 also feature a **script** window 104 ("TextMaker") that present the textual, formal English, equivalent of a diagram in the... referred to as OPL (Object Process Language) herein. A user can enter text into the **script** window 104 by typing, using speech recognition, opening a file, and so forth.

The tool can maintain the equivalence of the **script** window 104 description and the SUBSTITUTE SHEET (RULE 26) The text shown conforms to a... rules. Production rules can be expressed in a wide variety of formats, such as BNF (**Backus-Naur** format), EBNF (Extended **Backus-Naur** format) and so forth.

Furthermore, the rules shown feature English words and syntax, other... system may operate in batch-mode. For example, a user may submit, or open, a **script** of formal English sentences arranged in paragraphs and be presented with the corresponding set of... be implemented as an interpreter and/or a compiler. Additionally, rather than presenting a generated **script** or set of diagrams, the system may instead save such information as a file.

To... designer has specified that a "Person" 106 object initially assumes the "single" 108 state.

The **scripting** window 104 presents the formal English sentences 200, 202 corresponding to the diagram depicted in the workspace 102. Other configurations present the information shown in the workspace 102 and **scripting** window 104 in different ways.

For example, the system may permit user configuration and arrangement... "Vedding" process 112.

#### SUBSTITUTE SHEET (RULE 26)

- 14 As depicted in FIGs. 11-12, the **script** window 104 presents the text corresponding to the diagram currently displayed by the workspace 102 ...text concisely describes this system. The syntax of OPL enables easy parsing of the OPL **script** by an OPL compiler. For example, the name of event "Door-open" is a combination... event Door-open and the triggered process "Closing".

Again, the OPL compiler accepts an OPL **script** that specifies a system and automatically converts the OPL **script** file into C++ code. The OPL compiler includes modules symbolTable, lexer, parser, emitter, error, and... initializes the symbolTable. To allow for efficient compilation, a pre-processing pass on the OPL **script** arranges the OPL sentences in depth-first search (DFS) order. In addition to the usual... thing (object or process) should be specified before its parts. For example, in the OPL **script** of FIG. 27, the features of "Elevator", which are "ID", "OutstandingRequests%" and "LocationStatus" are fully...

1/3K/62 (Item 35 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00819465

**A DECLARATIVE LANGUAGE FOR SPECIFYING A SECURITY POLICY**

LANGAGE DECLARATIF DESTINE A SPECIFIER UNE POLITIQUE DE SECURITE

**Patent Applicant/Patent Assignee:**

- **SECURIFY INC**; 1157 San Antonio Road, Mountain View, CA 94043  
US; US(Residence); US(Nationality)

**Legal Representative:**

- **GLENN Michael(et al)(agent)**  
Glenn Patent Group, 3475 Edison Way, Ste. L., Menlo Park, CA 94025; US;

	Country	Number	Kind	Date
Patent	WO	200152496	A2-A3	20010719
Application	WO	2000US33640		20001211
Priorities	US	2000479781		20000107

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;  
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 21610

**Detailed Description:**

...June 1997) discloses a generalized-event monitoring notation that permits user-specified filtering and composition scripts to be dynamically loaded into distributed-event monitoring components. GEM uses "scheduled time events and...network link over

which the intruder's traffic transits. The system comprises a "policy **script** interpreter" that interprets event handlers written in a specialized language used to express a site...language 108 is provided herein below in Table C.

#### Table C

This table contains a **Backus- Naur** Form (BNF) description of the grammar for the policy specification language, including an annotation section...

1/3K/63 (Item 36 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00805450

**A UNITARY LANGUAGE FOR PROBLEM SOLVING RESOURCES FOR KNOWLEDGE BASED SERVICES**

LANGAGE UNIQUE POUR RESSOURCES DE RESOLUTION DE PROBLEMES POUR SERVICES BASES SUR LES CONNAISSANCES

**Patent Applicant/Inventor:**

- **OON Yeong Kuang**  
29 Darryl Street, Scoresby, VIC 3179; AU; AU(Residence); AU(Nationality);

**Legal Representative:**

- **MCMaster OBERIN ARTHUR ROBINSON & HEDDERWICKS(agent)**  
Stock Exchange Centre, 530 Collins Street, Melbourne, VIC 3000; AU;

	Country	Number	Kind	Date
Patent	WO	200139037	A1	20010531
Application	WO	2000AU1460		20001127
Priorities	AU	994219		19991125
	AU	20005285		20000127
	AU	20006782		20000407
	AU	20008240		20000621
	AU	2000468		20001003
	AU	20001115		20001031

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;  
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 30516

### Detailed Description:

...of SGML/HTML/XML

documents being sent from HTTP servers to web browsers and CGI

**scripts**NB**Scripts**/Javascripts to servers. The seeking and retrieval of such documents is aided by internet smart...of an item of information derives at least in part from the use of context **scripts**.

Preferably, the context **scripts** are able to stand alone as independent codes and preferably they are attachable and detachable...consultation servo oversight controller and medical record administrator phase;

(d) bi-directional context sensitive knowledge **scripting** unitary health language; and (e) combining all preceding components, and recruiting additional problem solving resources...of problem solving resources for enhanced problem solving, predicated on a bi-directional generic knowledge **scripting** language, comprising means for communication among a plurality of problem solving resources to augment each... ..To avoid such a name space conflict this invention has resort to a unitary knowledge **scripting** language with a single name space.

The need to link various problem solving resources together... ..of solving the patient's problems. What is required is a single integral unitary knowledge **scripting** language for the community of humans and machines that is able to cover the spectrum... ..for dialogical intercourse among a plurality of machines and humans. A single integral unitary knowledge **scripting** language confers the twin advantages of simplicity and robustness of a unified approach.

Contrast this...medical systems, a system of coding is needed for data, knowledge and heuristic representation.

A **scripting** language based on keyword themes and modifiers externally defined in a hierarchy and modifier **scripting** of basic themes lends the power of natural language expression yet retains the strict discipline... ..and lends itself to collaborative concurrent production of intelligent knowledge based systems.

Call by name/**scripting** as in the unitary knowledge **scripting** language, is exact and precise in contextual input and output. Unitary knowledge **scripting** language has in excess of 220 contextual modifiers for injury alone. With up to 4... ..that are coded and classified in a Linnean hierarchy in the manner of biological classification. **Scripting** of these terms in combination with modifiers, with predefined computer syntax; allows the creation of... ..modifiers to describe 250 basic types of injuries, over 24 billion injury codes can be **scripted**. More complex expressions rivalling natural speech are possible using information tunnelling. A system of context... ..care and enhanced problem solving, with a split servo medical consultation with a unitary knowledge **scripting** language, including the implemented steps of.

i) the splitting of the consultation into a plurality...both human and machine; with all transactions carried out in a single integral unitary knowledge **scripting** language of uniform uniform syntax and semantic structure.

In this invention, the medical consultation process... ..resources at potentially different loci - with all phases interconnected by a bi-directional unitary knowledge **scripting** language. In the basic embodiment there are at least the following components: 1) the servo... ..consultation servo oversight controller and medical record administrator phase IV)bi-directional context sensitive knowledge **scripting** unitary knowledge **scripting** language and V)combining all preceding components, and recruiting additional problem solving resources distributed over... ..of



patient care in a split system by using the same single integral unitary knowledge **scripting** language for communication and computer representation of patient data, medical knowledge and medical heuristics.

Furthermore... ..consultation phase by the middle phase 3)at any phase, a dialog in unitary knowledge **scripting** language can be initiated with other trusted problem solving resources.

This split consultation system invention... ..with his interactions with the servo preconsultation event collector phase. The context sensitive unitary knowledge **scripting** language output from this pre-consultation phase is the history data to be integrated in... ..pre-consultation phase besides its ability to produce a computer ready high level language medical **script** that automates the notating of the medical history aspect of the consultation itself This invention ...at the end of the session with the patient, produces an output in unitary knowledge **scripting** language that is germane for inclusion into the patient notes in the middle phase of... ..the preferred embodiment, the data collected in the pre-consultation is delivered in unitary knowledge **scripting** language. The construct enables the data collected to be placed as a worksheet of the... ..integrated into the electronic medical record proper. In the preferred embodiment the same unitary knowledge **scripting** language supports and connects the knowledge spreadsheet of the middle phase and the pre-consultation... ..by the healthcare professional during the middle consultation as all communication is in unitary knowledge **scripting** language. Any data generated by the actions of the patient must be vetted and validated... ..of the healthcare professional. This third phase also produces the same computer ready unitary knowledge **scripting** language **script** that is inputted into both the pre-consultation and the middle-consultation phases to modulate... ..ends analysis

h) Reporting to the healthcare provider.

#### IV bi-directional context sensitive unitary knowledge **scripting** language

The direct obstacle to such an invention is a need for a medical language problem solving community. What is required is a single integral unitary knowledge **scripting** language for the community of humans and machines that is able to cover the spectrum... ..injury in a car accident may be given a key V5577. Whereas this unitary knowledge **scripting** language invention uses direct naming and contextual **scripting** to represent medical data, for example the same injury is represented by: injury.head&ctx... ..of being parsed by a computer.

A quasi natural language such as the unitary knowledge **scripting** language obviates the task of assigning meaning to codes as the UHL codes are human... ..allows UHL terms to be strung together into a language stream. The resultant unitary knowledge **scripting** language bears the following hallmarks.

1) ability to code to any degree of granularity, anything... ..barred to natural language.

#### V) Problem Solving Community connected by birectional context sensitive unitary knowledge **scripting** language.

An artificial learning community for enhanced problem solving, predicated on a bidirectional knowledge **scripting** language called the unitary knowledge **scripting** language is described. It comprises means for communication among a plurality of problem solving resources... ..by either i) querying other problem solving resources which will answer in the unitary knowledge **scripting** language format or ii) requesting another problem solving resources for a set of heuristics associated... ..or disease topic, the other problem solving resources will then communicate back in unitary knowledge **scripting** language the set of heuristics pertinent to solving problems concerning the particular theme. The unitary knowledge **scripting** language comprises means for knowledge **scripting**, thereby enabling problem solving resources to automate knowledge acquisition by asking and receiving in the form of knowledge **scripting** unitary knowledge **scripting** language, either direct answers or heuristics to augment their problem solving ability.

This community of... of each individual problem solving resource to solve problems by the use of this knowledge **scripting** aspect of this unitary knowledge **scripting** language as input/output 3) as a means for the same problem solving resources to... both humans and / or other problem solving resources with output via the same unitary knowledge **scripting** language. This unitary knowledge **scripting** language comprises means for incremental, decremental, associative, and commutative change in the sum total knowledge... problem solving resources comprises means for both input and output utilising the same unitary knowledge **scripting** language.

This bi-directional **scripting** language allows the processes of "dialogs" among these plurality of problem solving resources to effect solutions to any general health problem.

Through the commutative and associative features of this knowledge **scripting** unitary health language, solutions provided for by problem solving resources can be adjusted back in... prior to the inclusion of knowledge from a given point in time. This unitary knowledge **scripting** language is defined in Extended **Backus Naur** Format and in the preferred embodiment uses modified Linnean classification of key words, information tunnelling... contextual drift and the graduated discrete definitional and planning model for problem solving. The same **scripting** language comprises means of querying and exchange of views or knowledge which are prerequisites of The vital ingredient of an artificial learning community is a bi-directional knowledge **scripting** language that is used for both input and output for the problem solving resources that... or more medical files pertaining to a first patient, each file represented in a medical **scripting** language having predetermined syntactical and semantic constructs;

2. a recorder to record and store each... for procedure and process of care in I O management.

UnitM Health Language in Extended **Backus Naur** Formalism

This formal definition is based on Extended **Backus Naur** Formalism (EBNF is discussed in Programming in Modula 2 by Niklaus Wirth, Springer-Verlag, 1982... ..action" I "#presentation" I "\*links" "\*unity" 'c#management" I "\*heap"

proposition ["?" I 41" 44!?" ] [date] **script** [[controller docleExpressionSeries fcontextBlock 1] {footnote I [comment] I variableDeclaration.

theme = docleIdentifier I "&" docleIdentifier I I "self I "dialog".

variableDeclaration = "I" (variable)

**script** theme [ plot

1 5 plot = subplot I .

subplot = { subplotPrimary I f contextualModifierI

subplotPrimary = contextualModifier subplot

**scriptSeries** = f **script** "." ) .

contextBlock = controller block.

block = J" **scriptSeries** "]" .

contextualOrganizer = "&ctx%3'string.

contextualModifier = ","string["W'string] .

controller= ( specialContextualModifier I .

contextualModifier specialContextualModifier contextualModifier

contextualOrganizer... ..I " ,H" I modulo" I " ,and" I

C% or" >=

assignment = variable " ,:=" docleExpression.

docleExpression = theme I **script** I block I "(" **script**

"(" docleExpressionSeries ")" I "(" assignment

docleExpressionSeries = ( docleExpression docleExpression] .

docleToken = {character 1.

docleIdentifier = docleToken { docleOperators docleToken I

variable...and SNOMED and the library of congress UMLS can be checked using the concept of **scripting** of medical themes and modifiers already predefined in a linnean multi-inheritance hierarchical framework as...  
...processing.

Knowledge, such as held in medical texts and guidelines can be translated into these **scripts**, termed unitary health language. UHL employs the concept of propositions, themes, plot, subplot, **script** series and context block constructions. The problem of data and knowledge representation in health and... ..is the ability to code for basic events such as medical events using small scale **scripting** with modifiers construct.

Because all the words in UHL are capable of human apprehension, are... ..numeric based and are immediately decipherable, it is unlikely the user will code for nonsensical **scripts** utilising the wrong modifiers. Unitary health language is compositional. It is possible for the user ... ..is demotion of themes to be contextual modifiers.

## 1 5 EXAMPLES OF MEDICAL CODING

The **scripting** component of unitary health language conforms to the following syntax.

Hence in Extended **Backus Naur** Formalism, the **script** is defined as.

**script** theme [ plot

plot = subplot I .

subplot = f subplotPrimary contextualModifier)

subplotPrimary = contextualModifier subplot

**scriptSeries script**

contextBlock controller block.

block **scriptSeries**

contextualOrganizer = "&ctx%"string .

contextualModifier = ","string["W'string]

```

controller = { specialContextualModifier
contextualModifier specialContextualModifier contextualModifier
contextualOrganizer
specialContextualModifier = ",when... ..true" I ",false"
I ",infer" .

```

```

contextualModifier = specialContextualModifier I contextualModifier I
contextualOrganizer .

```

A unitary health language **script** is a powerful method for coding a medical event. The **script** comprises a theme, a plot construction by appending a predefined contextual organizer and contextual modifiers...possible to add information such as ethanol levels to the party involved if required.

This **scripting** shows the possibility of coding for public health and medical research utilising these constructs. For example there are over 24 billion potential combinations for... ..when the situation arises. The elegance of this solution is that we can define the **scripting** and its lexical elements and yet restrict the use to only a tiny subset of... ..is any irrational fear of overcoding.

The modifier plot/subplot construct allows the formation of **scripts** with tenuous rather than tenacious links as in the ICD scheme. In the latter case... ..needs a 'tenuous' rather than a 'tenacious' stance, the tenuous and flexible method in this **scripting** language allows for graceful development of coding expressions to express new ideas and subtle nuances... ..researcher. The other advantage of this tenuous approach is the ability to analyse the UHL **script** at its various subcomponent level. For example the UHL **script** .

injury.head&ctx@ill,motorCarAccident,driver can be retrieved and analysed at the subcomponent of... ..Conflict Catcher.

It is a program written to vet for the correctness of the UHL **scripting**.

It catches logical errors such as a code for.

injury &ctx@ill driver pedestrian

The above **scripting** has a theme called injury. The driver and pedestrian contextual modifiers at the same information... ..of "dirty character strings". Vetting for correctness involves matching the dirty strings with the putative **script**, if it matches then the **script** is flagged as suspect. Efficiency can be improved by pre-sorting the alphanumeric collating sequence... ..these strings.

1 5 Another type of catching the contextual errors is to parse the **script** and detect a conflict with the linnean medical belief system under which all the words...done quickly. This is an example of information tunnelling using subplot construction.

These standardized UHL **scripts** can/should be composed on the advice of the relevant expert authorities to extract maximal... ..input effort (clever computer front ends) and the end user need never see the UHL **scripts** as such. The design of UHL is an extensible and easily scaleable framework that can...Next there is the special contextual modifier consider to be followed by a block of **scripts**. A block is similar to a compound statement, that is one statement comprising a series of statements. In the example below, the **script** on weight@loss is expanded upon by contextual modifiers stating its specificity and sensitivity in... ..or adverse reaction ) to penicillin then to consider

one option from the block comprising the **scripts** for gentamicin and vancomycin.

I jul 2000 endocarditis@bacteria &ctx@management  
,when (&ctx@ill,peni...to a disease object.

In the event that there is no explicit theme in the **scripts** of the context block and that the theme in the context block is really the...infer [ obesity

! obesity

Community of problem solving resources which utilizes a bi-directional unitary knowledge **scripting** language.

System of operation

The framework for the Problem Solving Community is based on the... ..Dialog between the two brokers over the connection socket using messages written in unitary knowledge **scripting** language

6)Connection closed.

Concept of a dialog

Not all conversations are a dialog. A... ..networked community. That revenue will in part go to the producer of the UKSL (UHL) **scripts**.

Such a Problem Solving Community will lead to the creation of a directory listing of...before answering UHL uses the !? notation.

One way to do collaborative problem solving with unitary knowledge **scripting** language is with the following steps that implement solving by learning from others. In this... ..site on the list.

The other way to do collaborative problem solving with unitary knowledge **scripting** language is with the following above steps that implement solving by asking for specific help... ..way. Hence to prompt the problem solving resource to output its response in unitary knowledge **scripting** language, the query has to be constrained by **script** modifiers, which lead to output of propositions that are pertinent to the solution which is... ..there is a formula in its belief system whereby bmi can be calculated. The next **script** being.

20 j un 2000 self bmi formula **script**

If the result is nil as there is no formula on bmi.

It will approach directory services with **script**.

directory bmi eval

This will return remote problem solving resource site recommendation, such as.

[www.instituteOfWeightResearch.com/kb](http://www.instituteOfWeightResearch.com/kb)

The local problem solving resource will then send the **script** below to the recommended site, which will then return the knowledge **script** on how bmi can be calculated.

The **script** below

20jun2000 bmi,formula,**script**

will produce....

1 5

1 jan 1999 bmi formula [ A self weight self height) self...use for purposes including communication, knowledge representation, heuristics, problem solving and client records.

unitary knowledge **scripting** language (UKSL) - a representational system comprising means for problem coding, knowledge **scripting**, heuristics representation, it is context sensitive and is suitable for bi-directional communication among many ... ..below).

unitary health language - a representational system in health comprising means for disease coding, knowledge **scripting**, heuristics representation, it is context sensitive and is suitable for bi-directional communication among many... ..event or situation. Context modifiers allow the weaving of the words of the unitary knowledge **scripting** language into a language.

Docle - name given to system and method of classifying terms (such... ..a linnean hierarchy.

docleScript -a name that may evolve one day to describe unitary knowledge **scripting** language

heap stands for accrual context data in a patient e.g. list of active... ..of a theme and modifiers. The concept of a propositions is defined mathematically in Extended **Backus Naur** Formalism.

unity = diagnoses

management = drugs + procedures

& code shear operator

. is context modifier operator

%sign means "value"

UHL - unitary health language

UKSL - unitary knowledge **scripting** language

Unitary knowledge **scripting** language framework can also be used for non medical problem domains. The language structure is... ..new word driver@software is created to avoid the clash in meaning.

A UKSL type **script** is useful for looking up all second hand Hondas on sale in Melbourne.

? car buy... ..author%'kenneth taylor' library%'waverley' Brokerage for internet requests can be facilitated by attaching UKSL **scripts** to internet documents.

For example an internet document on unitary health language version I known as uhl I computer software will have the following **script** attached.

rfl medical computing software uhl I author%'yk oon' url%www.doele.com.au... ..problem solving resource of the web crawler type then extricates all these UKSL 1 5 **scripts** attached ...each of the elements of the invention are used in combined form, namely, Unitary Knowledge

**Scripting** Language, Split Consultation System and Problem Solving Community. The figures merely depict the user interface...of an item of information derives at least in part from the use of context **scripts**.

4. A language according to claim 3 wherein the context **scripts** are able to stand alone as independent codes.

5. A language according to any one... ..subplots.

26. A language according to either claim 24 or claim 25 wherein the context **scripts** are attachable and detachable.

27. A language according to any one of the preceding claims...

1/3K/64 (Item 37 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00794266

**COMPRESSED STORAGE AND TRANSMISSION OF HIGH-LEVEL COMPUTER LANGUAGES**  
**STOCKAGE COMPRI ME ET TRANSMISSION DE LANGAGES INFORMATIQUES DE HAUT NIVEAU**

**Patent Applicant/Patent Assignee:**

- **CONEXANT SYSTEMS INC**; 4311 Jamboree Road, Newport Beach, CA 92660-3095  
US; US(Residence); US(Nationality)

**Legal Representative:**

- **OLSON Jeffrey(et al)(agent)**  
Lyon & Lyon, LLP, Suite 4700, 633 West Fifth Street, Los Angeles, CA 90071-2066; US;

	Country	Number	Kind	Date
Patent	WO	200127754	A2-A3	20010419
Application	WO	2000US25403		20000914
Priorities	US	99159144		19991013
	US	99451345		19991130

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;  
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 6275

**English Abstract:**

...representations of platform-independent programs for storage, execution and transmission. In one embodiment MPEG-4 scripts are compressed before being transmitted to and executed on client computer systems. A recursive



syntax... all possible expansions of a program in accordance with the recursive syntax description language. Each **script** or computer program written in the high level language is represented by a subset of... The encoded binary string is used to transmit, store and execute the computer program or **script**.

#### French Abstract:

...une plate-forme en vue de leur stockage, execution et transmission. Selon une realisation, des **scripts** MPEG4 sont comprimés avant leur transmission a des systemes informatiques clients ou ils sont executes. Selon une autre realisation, la forme de **Backus Naur** est utilisee comme representation du langage informatique de haut niveau. Un arbre d'analyse est... les extensions possibles d'un programme conformement au langage recursif de description de syntaxe. Chaque **script** ou programme enregistre dans le langage de haut niveau est represente par un sous-ensemble... La chaine binaire codee est utilisee pour transmettre, stocker et executer le programme informatique ou **script**.

#### Detailed Description:

...storing, transmitting or executing the program.

In one embodiment of the present invention, MPEG-4 **scripts** are compressed before being transmitted to and executed on client computer systems, such as set-top boxes and the like. In this example embodiment, a **Backus Naur** Form (BNF) representation of the high level **script** language (in this example, ECMAScript), is used to encode an MPEG-4 **script**. In one example, a parse-tree structure is created based on the BNF grammar representation... shows all possible expansions of an ECMAScript in accordance with the BNF grammar description.

Each **script** or computer program written in the high level language can then be represented by a...of the present invention is described in the examples below.

These examples use MPEG-4 **scripts** as the example high-level language. However, after reading the disclosure, it would be apparent... any high-level computer language. Accordingly, the use of the exemplary embodiment involving MPEG-4 **scripts** should not be construed to limit the scope and breadth of the present invention.

FIG... example. the broadcast server 4 transmits data, including audio, video, threedimensional scene data, and program **scripts** to the client 2. The program **scripts** are computer programs written in a high-level computer language. In this example, the high... 4, is a data stream of multi-media content, comprising audio, video, threedimensional scene and **script** data. The **script** data provides programmed information and is used to provide users with interactive capabilities, such as... namely the 3D component 20, the video component 22, the audio component 24 and the **script** component 26. The 3D component 20 decodes data streams and renders three-dimensional scenes on... used to decode audio data and render it on an audio device (not shown). The **script** component 26, in this example, is used to execute program **scripts** on the client 2.

In accordance with the example embodiment of the present invention, these **scripts** are written in ECMAScripts and are part of the MPEG-4 standard. In accordance with ... bandwidth, storage and transmission-time requirements. In addition, the compressed format of the ECMAScripts facilitates **script** execution by the **script** component 26. Specifically, the decoder module 28 is used to decode the compressed ECMAScript in... elsewhere (not shown).

A well known niethod for describing high-level languages, referred to as **Backus Naur** Form or BNF, will now be

used to describe the coding and decoding methods in... FIG. 4.

Referring now to FIG. 4, the first set of lines 80 define a **script**. In this example, a **script** is the equivalent of a program 30 and represents the root node of the hierarchical tree.

In this example, a **script** comprises "funcs" or an empty (null) string. Note that the vertical line represents a choice... of this description. This very compressed format tells one skilled in the art that a **script** may comprise an empty string 80 or one or more functions (i.e.

func), where the number of functions in which the **script** can comprise is unlimited, due to the recursive nature of the BNF description.

Next, "func... this fashion. Listed below, is a more complete BNF description of the example high-level **script** language ECMAScript.

Table I BNF Description of MPEG-4 ECMAScript implementation

start S=P-L

/\* general structure

**script** : funcs

I /\* empty \*/;

funcs : funcs func

I func;

func : FUNCTION bgnFunc '(' args stmtblk;

bgnFunc : IDENTIFIER ... expr RIGHTBRACKET comma-expr LEFTBRACKET;

var IDENTIFIER;

FIG. 5 is an example of a simple **script** that is useful for describing the encoding and decoding technique in accordance with one embodiment of the present invention. Block 100 depicts a simplified **script** comprising two functions. This **script** can be encoded by referring to the above BNF description of the language and coding... 5 shows a graphical representation of this method.

As shown, the root node is the **script** node 1 10. As indicated by the above BNF description of this example high-level language, a **script** 110 comprises either "funcs" or an empty string. In this example, a one bit ordinal... this path. In this case, "O" can be used to represent the case where the **script** 110 comprises "funcs" and "I" can be used to represent the case where the **script** 110 comprises a null string. As shown, the paths not taken is represented by the dotted lines in the **script** tree 110. In this example, the path shown the **script** node 110 to the funcs node 112 is completely described by the single... 44011.

As should be appreciated by those skilled in the relevant art(s), the entire **script** 100 can be described in this fashion. Thus, the compressed format of the **script** in accordance with an embodiment of the present invention comprises a sequence of bits. ... binary string. In this example, the path taken to reconstruct the first function in the **script** 140 is shown in bold fonts.

It should be noted that when a node has... tree that are not continued. The tree contains the specific instantiations of IDENTIFIER for the **script** 140.

The root node is the **script** node 142. Next, as shown, a one bit value is used to describe the selected path. That is a " 0 " is used because the **script** 140 contains func. A " I " WO 01/27754 PCT[USOO/25403

Next, as shown... "0" is used as the next bit in the bit stream used to represent the **script** 140. Next, a "1" is used to expand the furics 146 into func 160. Next... 172 identifier. This completes the representation for the declaration of the first function in the **script** 140. The representation for the **script** body is not shown. The bitstream, as shown comprises the following information "0 0 1... in accordance with each specific embodiment of the present invention.

The next function in the **script** 140, is encoded in a similar fashion. As should be apparent to persons skilled in... processed. The end result is a bit stream that is a compressed representation of the **script** or high-level program.

#### Example implementation

The following is an example of a specific implementation ... compress any type of high-level computer language.

#### Description of encoded bit stream

f

The **script** itself is encoded using an efficient bit ... sent, to the client 6, following the selection of BNF statement during parsing of the **script**. In one embodiment, an exception to this is made for both numeric and string constant... The following is an example of an algorithm that can be used to decode a **script** in accordance with a preferred embodiment of the present invention. The pseudo code below uses...

#### Claims:

...ECNIA Script.

5 The method of claim 1, wherein the computer program is an MPEG-4 **Script**.

6 The method of claim 2, wherein the computer network is the Internet.

7 The... computer system comprises an MPEG-4 renderer.

10 A method for compressing an MPEG-4 **script** comprising the steps of creating a parse-tree of the MPEG-4 **script** based on a BNF code representation; assigning a value to each multiple-path branch in...

1/3K/65 (Item 38 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00738029

**APPARATUS FOR DESIGN AND SIMULATION OF DIALOGUE**

**APPAREIL DE CONCEPTION ET DE SIMULATION DE DIALOGUES**

**Patent Applicant/Patent Assignee:**

- **UNISYS CORPORATION**; Township Line and Union Meeting Roads, P.O. Box 500, Blue Bell, PA 19424-0001  
US; US(Residence); US(Nationality)

**Legal Representative:**

- **STARR Mark T(et al)(agent)**  
Unisys Corporation, Township Line and Union Meeting Roads, P.O. Box 500, Blue Bell, PA 19424-0001; US;

	Country	Number	Kind	Date
Patent	WO	200051016	A1	20000831
Application	WO	2000US4426		20000222
Priorities	US	99255900		19990223

**Designated States:** (All protection types applied unless otherwise stated - for applications.2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE;

Publication Language: English

Filing Language: English

Fulltext word count: 9878

**Detailed Description:**

...a NLSA tool that virtually  
eliminates a need for specialized knowledge of speech,  
linguistics or **Backus-Naur** Format (BNF) coding to create  
20 new or enhanced existing IVR spoken language applications.

It...produce call flow  
code at block 59r design documentation at block 61 and/or  
recording **script** documentation at block 62. The  
information in document form in blocks 61 and 62 may ...

## Claims:

...set forth in claim 13

which further includes means for printing out design documentation and **script** documentation of refined and edited compartments 15\* A dialogue design system as set forth in ...RGRAMMAR DEV. TOOLJ@RUN TIME63  
61PRINTER I TEGRAMMAR SiCOMPLIER 6256' **SCRIPT** 6852 CUSPEECH 51SPECI R ASSISTANTGRAM  
R (SA)5 3 49...Fig. 3COMPARTMENTS, SOUNDS, VARIABLES ANDCALL FLOW IN HUMAN READABLE  
FORMATPRINT OUT RECORDING **SCRIPT** DOCUMENT4 182EVALUATE COST AND EXECUTABLES,  
TIME Fig. 3AND MANPOWE R TO CONVERT ...

**METHOD AND APPARATUS FOR VOICE ANNOTATION AND RETRIEVAL OF MULTIMEDIA DATA**

**PROCEDE ET APPAREIL DESTINES A L'ANNOTATION ET LA RECUPERATION VOCALES DE DONNEES MULTIMEDIA**

**Patent Applicant/Patent Assignee:**

- **KENT RIDGE DIGITAL LABS**; 21 Heng Mui Keng Terrace, Singapore 119613  
SG; SG(Residence); SG(Nationality)  
(For all designated states except: US)
- **LI Haizhou**; Building 413 Pandan Gardens #11-132, Singapore 600413  
SG; SG(Residence); CN(Nationality)  
(Designated only for: US)
- **WU Jiankang**; Blk 51, Teban Gardens Road #06-565, Singapore 6000051  
SG; SG(Residence); CN(Nationality)  
(Designated only for: US)
- **NARASIMHALU A Desai**; 103 Clementi Road #03-01, Kent Vale, Singapore 129788  
SG; SG(Residence); IN(Nationality)  
(Designated only for: US)

**Patent Applicant/Inventor:**

- **LI Haizhou**  
Building 413 Pandan Gardens #11-132, Singapore 600413; SG; SG(Residence); CN(Nationality); (Designated only for: US)
- **WU Jiankang**  
Blk 51, Teban Gardens Road #06-565, Singapore 6000051; SG; SG(Residence); CN(Nationality); (Designated only for: US)
- **NARASIMHALU A Desai**  
103 Clementi Road #03-01, Kent Vale, Singapore 129788; SG; SG(Residence); IN(Nationality); (Designated only for: US)

**Legal Representative:**

- **SPRUSON & FERGUSON PTE LTD**  
51 Bras Basah Road, #02-03 Plaza By The Park, Singapore 189554; SG;

	Country	Number	Kind	Date
Patent	WO	200045375	A1	20000803
Application	WO	99SG6		19990127

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English

Filing Language: English

Fulltext word count: 7944

**Detailed Description:**

...the annotating step can be dependent upon at least one of a customised vocabulary and **Backus-Naur** Form grammar. Still further, the

Z7

step of creating the word lattice may be dependent... the speech query can be generated dependent upon at least one of a customised vocabulary and **Backus-Naur** Form grammar.

In accordance with a fifth aspect of the invention, there is disclosed an ...and the speech query is dependent upon at least one of a customised vocabulary and **Backus-Naur** Form grammar.

**BRIEF DESCRIPTION OF THE DRAWINGS**

A small number of embodiments of the invention...regular expressions and collocations are used intensively. Table 1 illustrates a sample language, defined in **Backus-Naur** Form (BNF) 412 (482).

**TABLE I**

Sample BNF:= [Time|Place|People|Event|Topic]

Time:[January|February|March|April|May|June|July|August|September|October|

November|December]

Topic: [Finance|International relations]... to be the correct transcription of the speech 210. Transcription refers to the correct text **script** of the narrator's voice.

However, if the correct one is in the second or...

**Claims:**

...wherein said

annotating step is dependent upon at least one of a customised vocabulary and **Backus-Naur** Form grammar.

9 An apparatus for voice annotating digital media data, said apparatus

including: means... wherein said annotating means is dependent upon at least one of a customised vocabulary and **Backus-Naur** Form grammar.

17 A computer program product having a computer readable medium

having a computer... said annotating means is dependent upon at least one of a customised vocabulary and **Backus-Naur** Form grammar.

25 A method of voice retrieving digital media data annotated with speech,

said... said speech query is generated dependent upon at least one of a customised vocabulary and **Backus-Naur** Form grammar.

32 An apparatus for voice retrieving digital media data annotated with

speech, said... said speech query is generated dependent upon at least one of a customised vocabulary and **Backus-Naur** Form grammar. SUBSTANTIAL SHEET (RULE 26)

39 A computer program product having a computer readable... ..said speech query is generated dependent upon at least one of a customised vocabulary and **Backus-Naur** Form grammar.

46 A system for voice annotating and retrieving digital media data, said system... ..and said speech query is dependent upon at least one of a customised vocabulary and **Backus-Naur** Form grammar.SUBSTITUTE SHEET (RULE 26)-1/6112orma 100language110Ose...



1/3K/67 (Item 40 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00559144

# COMPONENT-BASED SOURCE CODE GENERATOR

GENERATEUR DE CODE SOURCE BASE SUR LES COMPOSANTS

## Patent Applicant/Patent Assignee:

- **CODAGEN TECHNOLOGIES CORP;**

;;

- **BRASSARD Michel;**

;;

	Country	Number	Kind	Date
Patent	WO	200022517	A1	20000420
Application	WO	99CA929		19991012
Priorities	US	98104014		19981013
	US	99145214		19990723

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English

Filing Language:

Fulltext word count: 18567

## Detailed Description:

...code generation process with such coding tools is a potential vendor releases new software versions.

## SCRIPTING

In some cases, even without access to a modeling tool's code generation algorithms, a developer can still use a **scripting** language to actually build a personalized source code generator for a particular target language.

This... ..burden of development and maintenance rather than maintaining code manually, developers must now maintain the **scripts** that generate the code. Unfortunately, the resulting code is hard to use and difficult to maintain and evolve because the target source code is found in broken pieces inside the **scripting** language and it must be modified in the proper sequence. This is a problem that extends far beyond the capabilities of these tools.

Furthermore, altering the **scripts** to target a new language or development environment is an intimidating challenge.

4GL

Fourth-generation...classes generated for VapAccount;

FIG. 13 illustrates a specific syntax for the model declaration, in **Backus-Naur** format, that could be used to implement a preferred embodiment;

FIG. 14 illustrates a specific syntax for the set of generation instructions, in **Backus-Naur** format, that could be used to implement a preferred embodiment;

DETAILED DESCRIPTION OF THE PREFERRED... to those skilled in the art.

Accordingly, the description of the flow charts and the **Backus-Naur** diagrams should be taken as illustrative of the invention and not in a limiting sense...

1/3K/68 (Item 41 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00557701

# **SPEECH CONTROLLED COMPUTER USER INTERFACE**

INTERFACE UTILISATEUR INFORMATIQUE A COMMANDE VOCALE

## **Patent Applicant/Patent Assignee:**

- **LERNOUT & HAUSPIE SPEECH PRODUCTS N V;**

;;

	Country	Number	Kind	Date
Patent	WO	200021074	A1	20000413
Application	WO	99IB1752		19991005
Priorities	US	98103059		19981005

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English

Filing Language:

Fulltext word count: 11023

## **Detailed Description:**

...as used in a preferred embodiment.

Fig. 8 represents an example of a dialogue description **script** as used in the conversational agent of a preferred embodiment.

Fig. 9 illustrates the conceptual... ..and output message from the SUL

Fig. 10 represents an example of a message generation **script** as used in a preferred embodiment.

## **Detailed Description of Specific Embodiments**

The concepts of computer...speech understanding grammars such as are known in the art, which are typically based on **Backus-Naur Format (BNF)** formalism with action linking and segment fragment tagging. These tools-e.g., grammar... ..stopping dialogues.

The language independent conversational agent of Fig. 7 is controlled by dialogue description **scripts** 701. An example of a **script** 701 for use in conversation management is depicted in Fig. 8. A **script** compiler converts dialogue and intention declarations into C++ files that set up the dialogues and... ..index for evaluation as either a numeric or a string.

Based on the dialogue description **scripts** 701, meaning is interpreted in

context according to the inputs received in the perception processes ... 705 (i.e., the dialogue manager 32 in Fig. 2) in lo conjunction with the **scripts** 701, to draw conclusions, generate new intentions, and update the beliefs (e.g., identify missing...the conversational agent has information to communicate to the user, the action process 706 uses **script** language for message generation in a io semantic form. Accordingly, TTS, SMC, and wave playback... ..a message to the user, and Fig. 10 shows an example of a message generation **script**.

A semantic representation of the message, step 901, is sent from the speech action process...

1/3K/69 (Item 42 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00551279

**AUTOMATION ORIENTED HEALTHCARE DELIVERY SYSTEM BASED ON MEDICAL SCRIPTING LANGUAGE**

SYSTEME D'ADMINISTRATION DE SOINS AUTOMATISE BASE SUR UN LANGAGE D'INFORMATIONS MEDICALES EN CODE MACHINE

**AUTOMATION ORIENTED HEALTHCARE DELIVERY SYSTEM BASED ON MEDICAL SCRIPTING LANGUAGE**

**Patent Applicant/Patent Assignee:**

- **OON Yeong Kuang;**

;;

	Country	Number	Kind	Date
Patent	WO	200014652	A1	20000316
Application	WO	99AU736		19990908
Priorities	AU	985772		19980909

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English

Filing Language:

Fulltext word count: 22374

**English Abstract:**

...or more medical files pertaining to a first patient, each file represented in a medical **scripting** language having predetermined syntactical and semantic constructs; (b) a recorder to record and store each...

**Detailed Description:**

**AUTOMATION ORIENTED HEALTHCARE DELIVERY SYSTEM**

**BASED ON MEDICAL SCRIPTING LANGUAGE**

**FIELD OF THE INVENTION**

This invention relates to a system administrator, a management system and a method for automation oriented healthcare delivery using a medical **scripting** language having predetermined syntactical and semantic constructs.

**BACKGROUND OF THE INVENTION**

Good health is the ...privacy constraints. In this invention, the concept of headerless anonymous patient files written in medical **scripting** language is proposed as a way to obviate the problem.

10) Healthcare costs is aggravated... ..at by the patient himself using the client spreadsheet browser. His file written in medical **scripting** language and interacting with the supervisory program detailed in this invention.

- 11) With present electronic... or more medical files pertaining to a first patient, each file represented in a medical **scripting** language having predetermined syntactical and semantic constructs;
- (b) a recorder to record and... or more medical files pertaining to a first patient, each file represented in a medical **scripting** language having predetermined syntactical and semantic constructs;
- (b) a recorder to record and store each... or more medical files pertaining to a first patient, each file represented in a medical **scripting** language having predetermined syntactical and semantic constructs;
- (b) recording and storing each medical file of... on a transportable human readable/machine parseable patient medical files/records coded in a medical **scripting** language which preferably also has embedded executive commands for enabling pre-emptive healthcare actions to... at the client level. This administrator program comprising means to interpret and execute the medical **scripting** language as a computer program of stored instructions and data.

This administrator may perform in... by the reading and manipulation of the patient medical file represented in the described medical **scripting** language.

#### Detailed Description of the Invention

##### Medical **Scripting** Language

One integral feature of the invention is the use of a medical **script** language which has been characterised as having predetermined syntactical and semantic constructions. The following description... which are merely the features of syntactical and semantic constructions.

The unique structure of Medical **Scripting** Language (MSL) is its commutative / associative features, especially of addition (and less so subtraction) operations... of data, examples are pathology/radiology reports, specialist findings and hospital discharge summaries.

Medical **scripting** language breaks down clinical and non-clinical data into events. For instance, the sex of... will be associated with a date stamp.

Because of the strict definition of the medical **scripting** language as a high level language with strict syntax and semantic rules, patient data that... the same result, independent of order, is said to be commutative.

In that sense Medical **Scripting** Language is commutative for addition or merger of two records.

Representing all medical data pertaining... the same result independent of grouping is said to be associative.

In that sense Medical **Scripting** Language is associative for addition or merger of more than two records of the same... the same result independent of order is said to be commutative.

In that sense Medical **Scripting** Language is commutative for subtraction and allows for reversion to its original state by reversing... the same result independent of grouping is said to be associative.

In that sense Medical **Scripting** Language is associative for subtraction of records.

Subtraction of records is of relevance in suppression... to a single patient delivers improved integrity attributed to the share structure of each medical **scripting** language file with its embedded administrative data. A cross check of administrative data in each respective medical **scripting** language file will ensure that patient A data will not be inadvertently put into patient... of "DocleScript" or "MSL" are sometimes used hereafter interchangeably to describe this I O medical **scripting** language. The terms "patient file" and "patient record" are also ...patient file is a persistent programming object.

1 5 A patient file written in medical **scripting** language integrates patient care by its means to represent every tiny medical event that has happened to the patient. This file, written in medical **scripting** language, is human readable. This implies the power of expressivity describing medical conditions that can approach the flexibility of natural language processing. Because medical **scripting** language is constructed like a high level computer language, the patient medical file in this invention can be interpreted or compiled by a computer program.

The structure of medical **scripting** language is defined in Extended **Backus Naur Format**, this same EBNF format is used to express high level computer languages such as... 2 by Niklaus Wirth, spronger Verlag 1982) and Smalltalk (Smalltalk V, Digitalk corporation 1992). Medical **scripting** language as an advancement on the manual and electronic medical record is analogous to what... level computer languages; there are syntax rules and predefined keywords. The key difference between medical **scripting** language and, say Java, is that in Java there are approximately 48 keywords, whereas medical **scripting** language has in excess of sixteen thousand keywords, with more to be defined. Whereas an... with no loss of function through its shape change tolerant nature.

Each keyword in medical **scripting** language is a Docle expression. Docle is an alphabetic notational, coding and linnean classification system used in clinical medicine invented by this author. Medical **scripting** language is the glue that holds together the disparate three components of the framework comprising the medical **scripting** language itself, the supervisory program and the patient browser/spreadsheet.

The preferred future embodiment of... universally transportable medical record when it is coded in a computer parseable, human readable medical **scripting** language and held as a string, based on the ASCII character set, such as in... for invoking the administrator program to run the designated protocols to effect healthcare actions.

Medical **scripting** language possesses many aspects of a computer program with its task oriented stored instructions and... record this fact so that the command is not repeated for a period. Yet medical **scripting** language also plays the role as a passive data file.

Representing a patient medical file in medical **scripting** language and placing this file on a secured network such as a virtual private internet... multiplicity of health workers and optionally the patient himself.

Representing the patient data in medical **scripting** language also opens up the possibility of collaborative problem solving by a team of healthcare workers that may include the patient himself.

Medical **scripting** language allows the inclusion of commands (with programming arguments) that will launch protocols that will effect health actions such as a reminder by email.

Medical **scripting** language structures the patient file into sections that view the medical record as a collection... a plurality of cells. This is described in more detail later in this specification.

Medical **scripting** language allows the comprehensive coding and mapping of all medical entities held in the patient

file and allows the decision support processing needed.

Typically, in the patient medical **scripting** language file, the events are further tagged as negative, neutral, active or inactive. A summary... any point in the globe to quickly evaluate a patient's general medical condition. Medical **scripting** language has a HTML (hypertext markup language) equivalent and it is possible to do a... This supervisory program comprises means to interpret and execute the patient file written in medical **scripting** language. Protocols or tasks are invoked by embedded commands held in the patient file.

All... Web Browser such as a Smalltalk plug-in, Java, JavaScript, Java Beans, Active-X, VI3 **Script** or any newer method of implementing client Server Web applications, but all using the patient files written in medical **scripting** language format.

#### Browser

Another integral feature of the combined computerised medical management system is the ... problem solving technique" This medical spreadsheet tool operates on the patient file encoded in medical **scripting** language.

This spreadsheet tool is the preferred way for updating and interacting with the MSL... In one embodiment, the privacy of patient data is enhanced by using a headerless medical **scripting** language file. This file has all its administration data suppressed except for a lock string... unicode standard, hence it is compatible with any computing platform. The patient file in medical **scripting** language is an active entity as it contains individually tailored prescriptive commands to invoke protocols... one particular manifestation of the administrator, the supervisory program comprises three components

- 1) the Medical **Scripting** Language Interpreter,
- 2) the Protocol Invocation Method, and
- 3) the PLUM medical belief system and query language system

#### 1. The Medical **Scripting** Language Interpreter

The interpreter builds up a virtual image of the patient by the use... constructed by populating these OrderedCollections with events held in the patient file coded in medical **scripting** language.

Before the interpreter can execute the embedded commands held in the patient file, the... The term pre-emptive in this context means 'to act for oneself before others'. Medical

**scripting** language supports pre-emptive tasking.

The protocol method is implemented to signal to the patient... the command can be deleted when the event has been fulfilled.

#### Technical Description of Medical **Scripting** Language Syntax

The Syntax of the Medical **Scripting** Language is expressed in EBNF.

This formal definition is based on Extended **Backus Naur** Formalism (EBNF is discussed in Programming in Modula 2 by Niklaus Wirth).

EBNF Syntax rules...above rules is.

cough fever



1 5 chest x ray abnormal  
pneumonia  
reassurance  
penicillin

#### Medical **Scripting** Language Syntax in EBNF

```
MSL-file = header "I" { ("I" keywordToCollection "I" (event  
header = "docle-msI... preventiveCode = "preventiveCare@" docleExpression  
action = "action@" docleExpression [ ("% "email" I "mail" I "phone" I "fax")
```

#### The Medical **Scripting** Language Environment

There are currently defined more than seven special tags of the type keyToCollection... prescription writing of a patient's medications. The command would trigger the preprinting of prescription **scripts** so that these **scripts** may be picked up by the patient subsequently.

#### 3) action

Arising from the execution of...section keywords and events.

The Docle coding system has over 16,000 docle expressions. Medical **scripting** language is like a programming language with 16,000 reserved words. Medical **scripting** language is unusual in the sense that it is both a programming and a data file. Because of this I/O programming aspect of the medical **scripting** file, healthcare actions can be initiated at the opportune moment to effect best patient outcome.

Privacy considerations is a big issue in medical informatics. The medical **scripting** language comprises means with implemented steps of downloading the patient file to a client in... the patient is like an actor and the physician is the director of the film **script**.

The patient has to put on the 'patient role' as he undergoes surgery, being experimented on with drugs, taking tests, being filmed in the radiology lab. The **SCRIPT** is the main thing otherwise the patient and the physician would all lose the plot. The doctor keeps 1 5 adding/amending the **script** when things turn awry. But the **script** keeps a fair record of what the actor (patient) and the director (doctor) ought to... this anti-tampering device further, the log.change file can be optionally encrypted.

The medical **scripting** file is in ASCII Text format. The supervisory program can download to the client in... a strong method of conferring privacy to patients. The headerless, administration details free, patient medical **scripting** language file is one where events of the administration kind are suppressed. That way, the...server will seek verification of user and password.

6. The patient file written in medical **scripting** language is retrieved.

7. The plumSpreadsheet session main menu will have choices for global log...14652 PCT/AU99/00736  
59

#### DESCRIPTION OF TABLES AND FIGURES

##### Table 1

These two medical **scripting** files pertain to the same patient. In this extreme example there are two medical records... location where he had a sex change operation. The ADD operation on the two medical **scripting** files produce a new composite medical **scripting** file that captures and integrates all the events.

ADD operation on two medical **scripting** files pertaining to one patient.

I #administration 16 Sep 1999 marital% 16 Sep 1999... 11 #book

### Table 3

A full blown example of a patient file coded in medical **scripting** language, comprising a, single graphic element showing a laceration of the face. The OrderedCollection of points (series of numbers) represent the graphic in Figure 3.

Example of a medical **scripting** language file with graphics embedded.

I #administration 16 Aug 1999 suburb%wheelers hill 16 Aug... In Figure 1 there is shown an algorithm for the ADD operation on two medical **scripting** language files. The files are concatenated and parsed event for event. The context for the... deprecated primary and secondary Docle keywords allows for keyword change tolerance in the patient medical **scripting** language file. This "shape change tolerance" for coping with change in the meaning of codes...

### Claims:

...or more medical files pertaining to a first patient, each file represented in a medical **scripting** language having predetermined syntactical and semantic constructs;(b) a recorder to record and store each... or more medical files pertaining to a first patient, each file represented in a medical **scripting** language having predetermined syntactical and semantic constructs;(b) a recorder to record and store each... or more medical files pertaining to a first patient, each file represented in a medical **scripting** language having predetermined syntactical and semantic constructs;(b) recording and storing each medical file of... The administrator, system and/or method of any of the preceding claims wherein the medical **scripting** language having predetermined syntactical and semantic constructs, is a high level computer language which represents... management issues.

10 The administrator, system and/or method of claim 9, wherein the medical **scripting** language is characterised by:a) being defined in Extended **Backus Naur Format**;b) all but natural language style, suitable for human readability and human check on... knowledge spreadsheet.

11 The administrator, system and/or method of claim 9, wherein the medical **scripting** language is a character string in ASCII format or ISO Latin- I subset of the... set itself.

12 The administrator, system and/or method of claim 9, wherein the medical **scripting** language comprises computer keywords which are linnean medical words derived from a linnean classification of... of ostension.

13 The administrator, system and/or method of claim 9, wherein the medical **scripting** language comprises an event construct including the characteristics of.

(a) each event having the components... or culled.

14 The administrator, system and/or method of claim 9, wherein the medical **scripting** language is classified into medical entities including:(i) symptoms, signs, diagnoses, treatment investigations and investigation... 15 The administrator, system and/or method of claim 13, wherein the medical 1 5 **scripting**

language is further characterised by having the events aggregated for administrative, command, action, presentation, links... chronological order.

16 The administrator, system and/or method of claim 13, wherein the medical **scripting** language comprises means to represent a snapshot of the present and past patient medical status... or record.

17 The administrator, system and/or method of claim 13, wherein the medical **scripting** language comprises the

steps of aggregating events into not yet defined entities, about to be... ..based process.

18 The administrator, system and/or method of claim 9 wherein the medical **scripting** language comprises means for embedded commands to do reminders and recall, including the implemented steps... ..is initiated.

19 The administrator, system and/or method of claim 9 wherein the medical **scripting** language comprises means for patient privacy protection with implemented steps of(i) selectively editing patient... ..matching encrypted lock.

20 The administrator, system and/or method of claim 9 wherein the **scripting** language 5 comprises means to preserve the integrity of patient medical files in the event... ..21 The administrator, system and/or method of claims 9 to 20 wherein the medical **scripting** language with implemented steps of mixing data elements and embedded programming instruction elements into a... ..22 The administrator, system and/or method of claims 9 to 21 wherein the medical **scripting** language, comprises means for rewriting itself into a new program with new embedded behaviour; with... ..action event in the action collection;(v) the writing out of the changed patient medical **scripting** language file; 0 with resultant changed behaviour of the altered patient file itself next time... ..23 The administrator, system and/or method of claims 9 to 22 wherein the medical **scripting** language, comprising means for cognating two separate files of the same patient into a single... ..24 The administrator, system and/or method of claims 9 to 22 wherein the medical **scripting** language includes a round trip inter-conversion from its original format to hypertext markup language ... ..or any derivative of standard generalised markup language (SGML), and back to the original medical **scripting** language.

25 The method of claim 7 wherein the transmission of the outcome of the...viewed as a document by a text editor.  
/3The ADD operation on two Medical **Scripting** Language filesConcatenatefile 1 andfile 2Readconcatenated&gt;  
fileAdd event to noOrdered nCollectionCategoriesyesRecreate Medical **Scripting**Language from OrderedCollection  
CategoriesOutput Medical**Scripting** LanguagefileFIGURE I/3Search algorithm for deprecated Primary and  
Secondary keyscandidate key... ..recognizedFIGURE 2-)/3Graphical print out of graphic element embedded in  
Table 3 medical **scripting** language file.oe@FIGURE 3SUBSTITUTE SHEET (Rule 26)  
(RO/AU)INTERNATIONAL SEARCH REPORT International...

1/3K/70 (Item 43 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00529126

# **PROPOSAL BASED ARCHITECTURE SYSTEM**

## **SYSTEME D'ARCHITECTURE BASE SUR LES PROPOSITIONS**

### **Patent Applicant/Patent Assignee:**

- **KINEXIS;**

	<b>Country</b>	<b>Number</b>	<b>Kind</b>	<b>Date</b>
Patent	WO	9960478	A1	19991125
Application	WO	99US11070		19990518
Priorities	US	9884199		19980520

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English

Filing Language:

Fulltext word count: 19282

### **Detailed Description:**

...methods are used to fire Visitor objects. These are dynamically loaded validations written in a **scripting** environment that the user can supply.

10. Special processing associated with building the actual tree ...definition. These style of these definitions is rendered in a "relaxed" version of the standard **Backus-Naur Form** (BNF) that has been used for years to document the syntax of programming languages...

1/3K/71 (Item 44 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00483391

**SYSTEM AND METHOD USING NATURAL LANGUAGE UNDERSTANDING FOR SPEECH CONTROL APPLICATION**

SYSTEME ET PROCEDE UTILISANT LA COMPREHENSION D'UN LANGAGE NATUREL AFIN DE L'APPLIQUER A UNE COMMANDE VOCALE

**Patent Applicant/Patent Assignee:**

- **UNISYS CORPORATION;**

;;

	Country	Number	Kind	Date
Patent	WO	9914743	A1	19990325
Application	WO	98US19433		19980917
Priorities	US	97932938		19970917

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English

Filing Language:

Fulltext word count: 9087

**Detailed Description:**

...d like", followed by

) either "hot dogs" or "hamburgers". This notation is referred to as **Backus-Naur-Form (BNF)**, a form of grammar that uses logical ANDs and ORs. The preferred embodiment...126) is particularly convenient when the underlying IVR (130) is done in a low level **scripting** language, such as Vos (by Parity) or BlaBla (by MediaSoft), that does not directly support...

1/3K/72 (Item 45 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00455325

**NEWS STORY MARKUP LANGUAGE AND SYSTEM AND PROCESS FOR EDITING AND PROCESSING DOCUMENTS**

SYSTEME ET LANGAGE DE BALISAGE D'ACTUALITES ET PROCEDE SERVANT A EDITER ET A TRAITER DES DOCUMENTS

**Patent Applicant/Patent Assignee:**

- **AVID TECHNOLOGY INC;**

;;

	Country	Number	Kind	Date
Patent	WO	9845789	A1	19981015
Application	WO	98US6244		19980330
Priorities	US	97832866		19970404

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English

Filing Language:

Fulltext word count: 11150

**Detailed Description:**

...and a corresponding insertion point which is visible in the story area 243 for the **script**. The story area 243 contains the text of the news story. In a **script** for a news story, the story area 243 contains the text that, for example, may... The dash indicates that the last number in the list is to repeat indefinitely.

The **SCRIPT** and **WIDTH** attributes are optional. The **SCRIPT** and **WIDTH** attributes are used to preserve margin settings using for a word wrapping by... used to wrap the text contained in the **BODY** element 362. The value specified by **SCRIPT** is the width I 0 in points used to wrap the text in incurred elements. The **SCRIPT** attribute, if absent, indicates the story is not **scripted**.

The **PINDENT** attribute is optional. The **PINDENT** attribute is a decimal number the defines the...a series of grammar rules, or grammars, that describe the syntax of the markup language.

**Backus-Naur** form is a standard system of notation that is used to describe a grammar rule...



1/3K/73 (Item 46 from file: 349) [Links](#)

PCT FULLTEXT

(c) 2007 WIPO/Thomson. All rights reserved.

00284070

**SYSTEM AND METHOD FOR DISTRIBUTED COMPUTATION BASED UPON MOVEMENT,  
EXECUTION AND INTERACTION OF PROCESSES IN A NETWORK**

**SYSTEME ET PROCEDE DE CALCUL REPARTI A BASE DE LA CIRCULATION, DE L'EXECUTION ET DE  
L'INTERACTION DE PROCESSUS DANS UN RESEAU**

**Patent Applicant/Patent Assignee:**

- **GENERAL MAGIC INC;**

;;

	Country	Number	Kind	Date
Patent	WO	9502219	A1	19950119
Application	WO	94US7397		19940708
Priorities	US	93521		19930708

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English

Filing Language:

Fulltext word count: 134654



?